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Étienne Brouillard

AI Architect Specialist

**Since 2004, Mr. Brouillard has worked for:**

A graduate in software engineering from the École de Technologie Supérieure de Montréal in 2007, Mr. Brouillard is an accomplished AI, AWS architect and solution developer with 15 years of hands-on experience on cloud applications using AWS to deliver the best of AI, IoT, HPC and Web. Mr. Brouillard is a certified AWS DevOps and Cloud Solution Architect Professional, ML and Security Specialist. Mr. Brouillard specializes in Serverless, PaaS & IaaS, Infrastructure as Code, MLOps, DevSecOps, NodeJS, GoLang, ReactJS.

Currently an AWS AI Specialist Architect at Intact Financial Corporation, he is responsible for implementing AI and MLOps solution architectures on AWS. The latest highlights are spearheading the AI Platforms Modernization Initiative on AWS for 400 data scientists and to deliver an end-to-end customer call analytics solution entirely in AWS, a high-value solution for Intact that has positioned the public cloud provider as the target platform for new AI developments at Intact's Data Lab.

In a multidisciplinary role at Edgenda, Mr. Brouillard was responsible for delivering cutting-edge training on AWS and Azure technologies covering architecture, development, and operations. Passionate about IoT, he has successfully delivered various initiatives including a customized Azure IoT Edge training for Quebec City. Internally, as part of a full team, he worked on updating the architecture and delivery of Edgenda's IT modernization. In consultation, Mr. Brouillard put his DevOps expertise on Azure at the service of Lowes to support the various teams in Longueuil, Morrisville and Bangalore in the realization of the Atlas project, a complete overhaul of Lowe's e-commerce platform.

Previously, at Nuvoola, he worked to create a cloud innovation center focused on turnkey delivery and R&D through the implementation of DevOps practices.

Intact Financial Corporation, Edgenda, Locomotive10, Nuvoola, KINESIQ, CGI, Techsolcom and Processia Solutions

**Ace**

AI Specialist Architect, AWS Principal Architect, Trainer, Azure and AWS Solutions Architect, Director of Innovation, Senior Consultant, Solution Architect, and Principal Developer.

**Doing**

Architecture and development of ML/AI solutions, AWS architecture and development (IaaS, PaaS & SaaS) with Python, NodeJS, Terraform, Azure, OpenAI technologies.

**EDUCATION**

Undergraduate, Software Engineering École de Technologie Supérieure, Montreal, Quebec, Canada 2003 - 2007

Technician College Degree, Computer Science   
CÉGEP Granby Haute-Yamaska, Granby, Québec, Canada 2000 – 2003

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| **LANGUAGES**  French (mother tongue)  English (Professional) | **INTEREST**  Scouting, Running, Craft Beer |

**CERTIFICATIONS**SCRUM PSM AWS: Cloud Solutions Architect ProfessionalAWS: Developer Professional   
AWS: Security Specialist  
AWS: Machine Learning Specialty

**Intact Financial Corporation   
Architect Specialist AI**  
October 2022 – Present

In his role as an AI Specialist Architect, Mr. Brouillard is responsible for the design of cross-functional architectures and references supporting data science (ML/AI) activities. The main focus is the migration of data science environments to AWS, self-service, implemented through the DataBricks platform and SageMaker. In this role, Mr. Brouillard is responsible for the development of reference architectures, orchestration of architecture activities with the other members (8) of the team and the other architecture bodies of the company. The goal is to build an integrated, secure, controlled, and flexible ML/AI platform for AI developers, data scientists, DevOps, and architects alike. In this role, he has more specifically carried out the following responsibilities and tasks:

* Lead the architectural work of the migration of data science platforms to Databricks and SageMaker on AWS;
* Design and validate reference MLOps architectures for observability, security, auditability, and resiliency of integrated data science environments on AWS;
* Negotiate and communicate architecture decisions in a context focused on data security and regulatory enforcement;
* Start and manage proof-of-concept activities;
* Build cost estimation charts for implementing solutions in AWS by mastering the various facets of cloud service cost estimation (Compute, Storage, Network);
* Prepare the necessary documents for the acquisition of products, external connections, security waivers, coordination of activities;
* Establishment of cloud architecture and development practices, promotion of the use of infrastructure as code in the software lifecycle;
* Coaching, presentation and writing of didactic content for the teams;

Technologies: AWS, SageMaker, Serverless, Databricks, APIgee, GenAI/LLM, Privacy Act 25, Terraform & Terraform Cloud, Service Desk & Catalog, Python, DevSecOps, MLOps.

**AWS Principal Architect**  
June 2020 – October 2022

In his role as AWS Principal Architect for Intact Financial Corporation, Mr. Brouillard is responsible for designing high-performance application architectures to enable the data lab to deliver artificial intelligence solutions. In this role, Mr. Brouillard helps the company anchor its existing solutions in its private cloud while deploying new products in the AWS public cloud. This strategic role leads him to play a key role in the implementation of best practices in development, operations and security (devsecops) which allows teams to deliver value faster than in a traditional (devops) mode. Mr. Brouillard's work is not limited to public cloud computing, he also works on the implementation of solutions that allow the pooling of computing resources (GPUs) through the implementation of an inference service solution. In this role, he has carried out these responsibilities and tasks:

* Design and validate AWS application architectures and document them from a service, resource, security, and network perspective;
* Start and manage proof-of-concept activities;
* Build cost estimation charts for implementing solutions in AWS by mastering the various facets of cloud service cost estimation (Compute, Storage, Network);
* Prepare the necessary documents for the acquisition of products, external connections, security waivers, coordination of activities;
* Establishment of cloud architecture and development practices, promotion of the use of infrastructure as code in the software lifecycle;
* Coaching, presentation and writing of didactic content for the teams;
* Building AWS resource monitoring dashboards using Cloudwatch;
* Lead and participate in negotiations between stakeholders in a context where the public cloud is not yet well established in the company's customs.

Technologies : AWS, Services Serverless, Amazon OpenSearch Service, DevSecOps, Terraform, Triton Inference Server, PaaS et SaaS.

**Edgenda  
Cloud TrainerMarch 2018 –** May 2020

As a Cloud Trainer at Edgenda, Mr. Brouillard is responsible for delivering cutting-edge training focused on AWS and Azure Cloud technologies. The goal is to give companies the levers to start the shift to cloud computing. In order to achieve this goal, Mr. Brouillard must pursue a rigorous and comprehensive certification path that covers Azure and AWS platforms at the operational, development, and architectural levels. This path allows Mr. Brouillard to offer a support and mentoring service to companies by giving them the tools adapted to their needs. The success of this course is based on concrete technical experiences with each of the platforms and tools. In this role, Mr. Brouillard's responsibilities are:

* Master from a technical and popularization point of view, each of the subjects of the training delivered by the instructor;
* Deliver training materials in an enriching environment for participants;
* Build relevant demonstration materials;
* Pursue a certification path in the development, architecture, and operation of Azure and AWS cloud systems;
* Actively participate in the mentoring of resources from Edgenda and Edgenda's partner companies;

Azure AWS GCP Azure DevOps

**Cloud Solution Architect, DevOps Specialist**  
March 2018 – Present

As a Cloud Solutions Architect and DevOps Specialist at Edgenda, Mr. Brouillard is in charge of helping and working with the development team to build internal products and solutions on Microsoft Azure. This ensures that solutions use Microsoft Azure in the most cost-effective and performance-efficient way. The in-house products are:

* Equipping intelligent training rooms;
* Microsoft CSP Billing Management System;
* Jackbot, a chatbot that helps customers and employees interact in a natural way with the company's assets and services;
* Automation of training labs on Azure and AWS.

In this role, Mr. Brouillard was responsible for:

* Design solutions on Azure/AWS and build proofs of concepts;
* Supervise and assist the work of developers and align with customer expectations;
* Development of solution evaluation grids (decision matrices);
* Construction of solutions infrastructure;
* Configure and maintain CI/CD pipelines on Azure DevOps;
* Development of ARM configurations, scripts, and templates;
* Design and develop solutions on Microsoft Azure and AWS using PaaS and Serveless solutions;

Azure AWS Azure DevOps ARM Kubernetes Docker NodeJS GOLang C#

**Azure IoT Specialist**   
March 2019 – Today

As an Azure IoT Specialist at Edgenda, Mr. Brouillard builds courses on multiple Cloud and IoT technologies, offers courses, and assists the sales team by offering customized courses to Edgenda's customers. His latest achievement is the construction of a 3-day course focused on Azure IoT and Azure IoT Edge that was successfully delivered to the IT department of the City of Quebec in order to propel its smartcity initiative on Azure.

Azure AWS IoT Azure IoT NodeJS GOLang C#

**DevOps Specialist Instructor for National Bank of Canada**  
March 2019 – October 2019

As a DevOps Specialist for the National Bank of Canada, Mr. Brouillard was responsible for delivering a twelve-day DevOps training focusing on different tools in the company's DevOps ecosystem such as Java, Docker, Jenkins, Docker, Kubernetes, Ansible and Terraform covering the various key areas of DevOps. Mr. Brouillard gave the 12-day training to 6 groups of 15 people in total. Mr. Brouillard was also responsible for improving the training materials following student feedback. Finally, Mr. Brouillard was responsible for automating the provisioning and configuration of the virtual lab environment on Azure using Ansible, Terraform, and PowerShell. In this role, Mr. Brouillard was responsible for:

* Provide classroom training on DevOps using tools such as Java, Docker, Kubernetes, Jenkins, Ansible, and Terraform;
* Develop and improve training materials;
* Prepare exercises and labs;
* Setting up a cost-effective virtual lab environment using automation tools which, in turn, saved the company 40% of lab environment costs.

Azure AWS Jenkins Java Docker Kubernetes Ansible Terraform Powershell

**Azure Specialist for Lowe's Canada**   
April 2018 – Today

As an Azure specialist, Mr. Brouillard is involved at various levels on the Atlas project. He assists the delivery management team in establishing, configuring, and evolving DevOps practices on Azure DevOps, defines the architecture of the business process automation solution, and implements innovative application monitoring and identity management solutions leveraging ServerLess platforms. In this role, he has therefore actively participated in:

* Define solution architectures on Azure in order to meet various facets of the project such as application monitoring, business process automation and identity management;
* Implement Azure DevOps agent automation for build, delivery, and testing using Azure RM, Azure VMs DSC, Packer, and Azure DevOps;
* Define and implement application monitoring routines and tools on a Kubernetes and Application Insights cluster;
* Define and implement identity management automation tools using Microsoft's GraphAPI and serverless computing (Azure Functions and Logic Apps);
* Define API management strategy using Azure API Management Service for business process automation;
* Develop different proofs of concept using C#, NodeJS and PowerShell;
* Automate infrastructure deployment on Azure using Azure Resource Management and Azure DevOps;
* Build build and delivery pipelines in Azure DevOps for different teams in the Atlas project;
* Write and present various solution and architecture documents;

Azure Azure DevOps Azure Resource Management DevOps SCRUM PaaS SaaS IAM Kubernetes ServerLess Infrastructure NodeJS PowerShell C# GraphAPI

**Locomotive10**

**Technology Consultant for Abeona Systems**   
April 2018 – Present

On behalf of his own company, Locomotive10, Étienne Brouillard is responsible for the implementation and design of the software platform for Abeona Systems. Abeona Systems develops various products for remote monitoring and prevention of dangerous situations for elderly people with loss of autonomy. In this capacity, Mr. Brouillard is in charge of:

* Define the Internet of Things solution leveraging Azure IoT and serverless computing;
* Develop with GoLang and deploy integration components on Kubernetes;
* Implement CI/CD pipelines on Azure DevOps;
* Oversee third-party development work, define solution architecture, manage technical expectations, deliveries, and continuous integration;
* Implement a continuous delivery process; Build build and delivery pipelines in Azure DevOps for different teams in the Atlas project;
* Write and present various solution and architecture documents;

GoLang IoT .Net Docker Kubernetes Azure App Service Azure Logic Apps Azure SQL Server

**Nuvoola**

**Director at the Cloud Innovation Center**   
April 2017 – Present

As a leader of the Cloud Innovation Lab, Mr. Brouillard is responsible for the software development lifecycle, solution architectures, and technology directions for projects inside and outside Nuvoola. Building on the Scrum framework and strong DevOps principles, the Cloud Innovation Lab provides high-value, high-quality, cloud-based integration and custom solutions deployable across the following three public cloud providers: AWS, Azure, and GCP. In this position, Mr. Brouillard is responsible for:

* Establish project-specific solution architectures;
* Establish DevOps and SDLC practices in cloud computing;
* Mentor and develop the expertise of a team in order to develop innovative internal solutions such as cognitive APIs, ChatBots and development accelerators;
* Conduct job interviews and talent contacts;
* Meet customers and canvassing
* Support the tendering process

Azure AWS GCP DevOps VSTS SCRUM PaaS SaaS IAM

**KINESIQ**

**IT Director**   
February 2017 - April 2017

For KINESIQ, a startup developing an exercise machine to improve the balance of people in rehabilitation and loss of autonomy, Mr. Brouillard's role is to:

* Perfecting the software delivery cycle;
* Conduct job interviews;
* Implement a continuous delivery process;

NodeJS MongoDB .NET WPF Jenkins Office365 MySQL

**CGI**

**Senior Advisor for the City of Montreal - Information Technology Solutions**  
July 2016 - February 2017

For the City of Montreal in the Information Systems Department, Mr. Brouillard worked in a core group of developers responsible for establishing NodeJS development foundations in a DevOps model. Among Mr. Brouillard's responsibility to set up the development foundations, the duties of the advisor were:

* Establish practices in NodeJS and AngularJS development, design, analysis and quality assurance;
* Develop and test development foundations in a DevOps model;
* Evaluate and qualify development platforms;

NodeJS MongoDB Swagger Docker HapiJS Jasmine Oracle

**Mobile Solutions Specialist for CGI - Sherbrooke and Shawinigan Delivery Centre**  
July 2015 - February 2017

For the CGI Centres of Excellence in Sherbrooke and Shawinigan, Mr. Brouillard is responsible for leading and establishing mobility expertise in order to attract projects and contracts for the development and maintenance of various mobile applications and systems. During this mandate, Mr. Brouillard performed the following tasks:

* Establish practices in the development, design, analysis and quality assurance of mobile applications;
* Mentor and develop the expertise of a team of interns to develop innovative internal solutions;
* Conduct job interviews and talent contacts;
* Communicate on a regular basis with clients and CGI's Mobility Centre of Expertise in Montreal to position the delivery centre;
* Establish training programs;
* Meet customers and canvassing
* Support the tendering process;
* Develop tools and accelerators;

IOS Android AngularJS NodeJS Express Swift XCode Apple AppStore Google PlayStore

**Solution Architect and Principal Developer for Spectocor Reports Web Portal**February 2016 - July 2016

For Quest and its client, Spectocor Medical Supplies, the consultant was tasked with developing the front-end components for a reporting portal. The solution consists of an AngularJS and Canvas application and requires a high level of performance so that medical technicians can quickly and efficiently review hundreds of daily electrocardiograms and annotations to generate reports for doctors. Heart graphs are displayed using HTML5 canvases and data exchanged with the backend using WebSockets. On this mandate, the consultant was responsible for:

* Design the structure of the application and technical validation;
* Develop the AngularJS application and streaming service with WebSockets;
* Apply the client's graphic standards;
* Design and develop streaming services and caching;
* Develop the graphic rendering components using the HTML5 canvas;

.NET 4.5 C# NodeJS AngularJS HTML5 Canvas WebSockets Agile Entity Framework WCF SQL Server GIT UX Design

**Solution Architect and Principal Developer for Spectocor Reports On-Premise Application**November 2015 - February 2016

For Quest and its client, Spectocor Medical Supplies, the consultant was responsible for the design and development of the GUI component of a medical report download solution. The project was developed following the Agile methodology. The application is a WinForms-like application and has its own business layer as a separate Windows service. During this mandate, Mr. Brouillard was in charge of:

* Design the structure of the application and technical validation;
* Develop the WinForms application and Windows service;
* Apply the client's graphic standards;
* Design the fulfillment service;
* Design the automated printing solution;

.NET 4.5 C# WinForms Agile Entity Framework WCF SQL Server GIT UX Design

**Solution Architect and Principal Developer for Morneau Shepell**  
November 2015 - December 2015

For Morneau Shepell, as part of a joint participation with CGI in a call for tenders, Mr. Brouillard was responsible for the development of a high-quality AngularJS application with an eye-catching user experience. This application included the realization of two components of data entry and import. The application also had to integrate and report on the progress of SSIS tasks. The effort was spread over three weeks and as such the tasks of the counsellor were:

* Develop the AngularJS web application;
* Design mock-ups and screens containing the targeted client's brand image;
* Design and implement the integration mechanism with SSIS;
* Integrate SignalR and task progress feedback;

.NET 4.5 C# HTML5 JavaScript CSS AngularJS SignalR SSIS REST GIT Agile Visual Studio JQuery UX Design Bootstrap

**Solution Architect and Principal Developer for Johnston Group MyBenefits.ca V2**July 2015 - February 2017

For the Johnston Group for Phase 2 of a mobile application project based on the Kony platform, Mr. Brouillard is responsible for maintaining communication between the development team in India, the project management based in Edmonton and the client in Winnipeg. The project is an evolution that adds functionality to an existing app on the mobile web, iOS, and Android. In this mandate, Mr. Brouillard is responsible for:

* Perform final quality assurance and deliver applications to the customer;
* Manage the MyBenefits app in ItunesConnect and Google PlayStore;
* Maintain the communication channel at the technical level between the parties in order to achieve the objectives and specifications of the application;
* Manage the communication channel with Kony at the time of the testing phase;

IOS Android AngularJS Kony Apple AppStore Google PlayStore

**Techsolcom**

**Solution Architect and Lead Developer at Cirque du Soleil, COSA 2015**February 2015 - July 2015

For Cirque du Soleil at the international headquarters, as part of a team of three developers, Mr. Brouillard is in charge of solutions and component development for the 2015 phase of the COSA (Cirque Oriented Service Architecture) project. This project contains several aspects such as the design of the automated Azure deployment platform and the development of new company services. During this mandate, Etienne Brouillard's tasks are:

* Design and document the automated deployment process on Azure;
* Develop PowerShell components;
* Integrate Azure Resource Management into the tool portfolio;
* Design and document two corporate departments (customers and sales);
* Develop, integrate and deploy enterprise services;

.NET 4.5 C# HTML5 JavaScript CSS Azure PaaS IaaS ASP.Net MVC REST NUnit TFS Agile GIT Visual Studio PowerShell Azure Resource Manager ASM ACS Entity Framework SQL Azure Azure WebJobs

**Solution Architect and Senior Developer at Cirque du Soleil, Site Spectacle Toruk**February 2015 - May 2015

For Cirque du Soleil at the international headquarters, among a team of five developers, Mr. Brouillard was responsible for the integration, using ASP.Net MVC, of the microsite of Cirque du Soleil's new show: Toruk - The First Flight. In this role, Brouillard quickly took the lead on integrating the microsite into the current Azure WebApp. The tasks of this mandate consisted of:

* Develop the Toruk microsite using ASP.Net MVC 5, C# and JavaScript;
* Develop the automated deployment mechanism on Azure;

.NET 4.5 C# HTML5 JavaScript CSS Azure PaaS IaaS ASP.Net MVC REST NUnit TFS Agile GIT Visual Studio PowerShell Azure Resource Manager ASM ACS Entity Framework SQL Azure Azure WebJobs

**Solution Architect and Lead Developer for Garda, Cashtrak NG System & Framework project**July 2014 - February 2015

For the Cashtrak NG project, Mr. Brouillard was responsible for the delivery of the technology platform. This platform aims to implement a new application framework on Microsoft Azure for the development of the value management system at GardaWorld. The system consists of several key integration points, a new SPA-like application model, and secure REST services to meet the high security requirements. All of this leverages Microsoft Azure PaaS and SaaS to reduce operating costs and maximize Azure availability. During this mandate, Mr. Brouillard was in charge of:

* Design the application framework for the development of SPA applications and REST services on C#, AngularJS, Azure PaaS and SaaS;
* Design the solution architecture around data access, business rules and integration of legacy systems;
* Design security architecture around Azure Active Directory and nTier systems;
* Create project templates in Visual Studio;
* Manage tooling around the software lifecycle such as continuous integration and automated testing;
* Manage development teams at the architecture level;

.NET 4.5 AngularJS JavaScript CSS Azure PaaS IaaS Azure AD OAuth2 OWin PowerShell MVVM Unity C# REST SQL Azure XML TDD NUnit GIT SCRUM Visual Studio Agile Methodologies Azure WebJobs

**Microsoft Practice Lead for Techsolcom's Digital Studio**July 2014 - July 2015

For TechSolCom Inc., Mr. Brouillard set up the Microsoft Solutions Delivery Team. The company's orientation is to become a leader with Microsoft Azure and the development of cloud application solutions. In addition, the goal is to leverage skills learned on the Java side of the center to quickly make the development center a success. The existing competence center uses SCRUM and Atlassian. The centre used the Cashtrak project with Garda as an important first step. The main objectives were to:

* Implement and achieve Microsoft Silver and Gold recognition levels in application development;
* Manage the developer training and certification program; • Recruiting key resources for the Garda and Faurecia projects;
* Provide tools, templates and guide to developers;
* Implement the Azure Enterprise Agreement between Microsoft and Techsolcom Inc.;
* Establish good practices in the SDLC;
* Participate in calls for tenders;

.NET 4.5 AngularJS JavaScript CSS Azure PaaS IaaS C# REST SQL Azure XML TDD NUnit GIT SCRUM Visual Studio Agile Methodologies

**CGI**

**Solution Architect and Principal Developer for CGI Energy - CGI Exploration2Revenue Mobile Data Capture**October 2012 - July 2014

For the development of a mobile data entry app for the oil and gas industry, the goal was to develop a brand new app on both WinRT and Windows WPF platforms using a reusable codebase. Mr. Brouillard in this position was in charge of solution design, technical analysis and leading a team of 5 developers. This project was delivered by multi-site teams from Montreal, Calgary and Bangalore. As a highlight, the application had to allow operation in offline mode, a scriptable and Ulx business rules engine consistent between mobile and classic modes. On this mandate, Mr. Brouillard was to:

* Design the user interface and user experience (UX);
* Design the solution to minimize the development effort since the application had to target WPF and WinRT;
* Implement an offline management mode and a fully configurable business rules engine;
* Develop training materials for developers;
* Establish development recipes and practices to be adopted
* Lead a development team and perform quality assurance tasks;
* Manage customer expectations based on technical limitations and challenges;
* Develop the application in TDD mode and write unit tests;
* Conduct code reviews and inspections;

.NET 4.5 WPF XAML for Windows Store Windows Store MVVM Caliburn.Micro Unity C# REST SQLite Telerik TDD NUnit TFS Agile SVN UX Design Visual Studio

**Solution Architect and Principal Developer for Mobile App Fabric**January 2014 - March 2014

As the Windows Store Service Leader within the Microsoft Center of Expertise at CGI, Mr. Brouillard was responsible for developing strategies and tools to position the Center of Expertise in this growing market. One mandate that has been given to Mr. Brouillard is to develop a reusable application that maximizes the base of the Microsoft T4 templating machine in order to obtain a platform that reduces development costs. In this capacity, Mr. Brouillard performed the following tasks:

* Participate in calls for tenders and project estimates;
* Build a training catalog and create a core of developers;
* Conduct a technology watch;
* Design simultaneous Windows Phone and WPF project templates;
* Design and develop the components required for a 'Business Line' application
* Create T4 code generation templates for external SQL and WebAPI data sources
* Develop and write unit tests;

.NET 4.5 WPF XAML WinRT Windows Phone Universal Apps for Windows WebAPI T4 REST UX Design Project estimations

**Lead Developer for the Prim'Heure project of Technologies Nter**August 2010 to April 2013

As a senior developer assigned to the Prim'Heure project, Mr. Brouillard is responsible for the development of key functional components. This application manages the calendar of employees and workstations at four casinos of Lotto-Quebec sites. This app requires the development of components using GDI+. This task requires a solid knowledge of Windows Forms and .Net foundation frameworks. In this role, he carried out the following activities:

* Based on the documentation of functional requirements, detailing the tasks, estimates and designs of the technical solution elements needed to develop the components to meet the functional requirements;
* Develop and improve the application structure that integrates the functional units, which poses several challenges, requires a long-term vision of the project and imposes a mitigation and risk management strategy;
* Develop screens and forms using Windows Forms, GDI+ and Infragistics technology
* Perform code reviews and inspections; Develop functional optimization strategies to reduce screen complexity while achieving initial objectives.
* Manage source control and increment delivery;
* Writing of technical documents;

.NET 3.5 WinForms C# Visual Studio GDI+ ASP.Net MVC NHibernate Unity TDD NUnit TFS Oracle NMock Agile SCRUM UX Design MVC

**Processia Solutions**

**Developer at the ECOBOM project for Renault F1**July 2009 to August 2010

As a lead developer, Mr. Brouillard was responsible for developing and maintaining an application for managing technical change orders for race car parts at the Renault F1 team. The process ultimately resulted in the shortest possible release of parts for a specific car following the part's design cycle. As the lead developer of the project, he travelled to Enstone, UK to meet with the team, project managers, client and business analysts. The task at hand was to rebuild, almost from scratch, basic components of the system to improve its maintainability, scalability, and overall quality. His duties included:

* From the existing solution, the extraction of business modules and redefining the logical layers; structural analysis, proposing reconstruction strategies, presenting a risk and feasibility analysis as well as the determination of the scope of the project;
* Definition of a process and tools to be used for the development of the software solution; Assemble a team and ensure that customer expectations are aligned with planning.
* Carry out the redesign, integration of changes and evolution requests. Allocate development resources to tasks;
* Design the code generation process using MyGeneration;
* Writing of technical documents;

.NET 3.5 C# WinForms PLM Catia MyGeneration SQL Server SSRS TDD NUnit RhinoMock WCF MVC ASP.Net 2.0 WCF Agile SCRUM

**CGI**

**Developer for the SimDel5 Project at Hydro-Québec**February 2009 - July 2009

As a .NET analyst / developer, Mr. Brouillard was responsible for developing a load shedding simulator for Hydro-Québec in WinForms .Net. The system had to operate in real time by simulating up to 48 load shedding devices simultaneously. The objective was to use this software as a tool to test the next generation of Hydro-Québec's network management system (CADRE). The system uses a new network protocol (DNP/IP) that is developed by a third party specifically for this system. On this mandate, the main tasks of the consultant are as follows:

* Extraction of technical requirements specifications from the original equipment for the simulator and writing of test cases accordingly;
* Based on a previously built prototype, improve the user interface and rewrite the user interface. Use of NUnit and NMock in a TDD mode, developing the simulator to reflect the requirements. Implementation of mocks of third-party components not yet available. Implementation of a rich scripting environment that provides the end-user with a convenient way to simulate events inside the simulator;
* Writing unit tests to prove the correctness of the solution. Creation of scenario profiling to assess actual performance and detect areas of improvement;
* Management of third-party deliverables while keeping change requests to a minimum;

.NET 2.0 WinForms DNP/IP (IEC 60870-5-104) TCP/IP XML XSLT TDD NUnit NMock Agile Windows Server 2003 CADRE

**Developer in the framework of the BRP BossWeb Compensation Project**June 2008 - January 2009

This mandate consisted of developing the updated compensation program used by BRP. The project involved the use of SSIS 2005 to extract, manipulate, calculate, and store values needed to produce accurate reports in MS Excel and within BRP BOSSWeb. This project involved the use of ASP.Net 2.0, Ajax Control Toolkit, Microsoft SQL Server Integration Services, Microsoft SQL Server, and Mercury Quality Center. He performed the following tasks:

* Implementing, modifying and correcting new reports built in ASP.Net 2.0 WebForms, implementing and modifying specific data flows in SSIS, implementing and modifying specific stored procedures, implementing specific macros from MS Excel for cross-validation;
* Writing and executing unit tests to ensure quality control throughout the report development phase using NUnit and NMock;
* Writing and running functional and integration tests using Mercury Quality Center and Team Foundation Server as a tracking system work item;
* Source Control Management

ASP.Net 2.0 Visual Studio .NET 2.0 Ajax Control Toolkit AndroMDA Eclipse EMF NVelocity SAP R3 SAP XI Rational Software Modeler NUnit NMock Agile TFS CruiseControl .NET SQL Server nTiers Architecture Microsoft Office SharePoint Services CMMi Windows Server 2003 SSIS

**Developer for the RDPRM Project at the Quebec Ministry of Justice**January 2008 – May 2009

This mandate consisted of migrating the existing VB6 FormulRDPRM application to a ASP.NET web application on an SOA architecture. The solution has been used by clients of the Ministère de la justice du Québec who wish to register personal and real rights in the RDPRM register. His duties included:

* Web form development using ASP.Net 2.0 and AJAX Control Toolkit. Build web controls to achieve maintainability and reusability goals and extend the behavior of many Ajax controls;
* Perform unit testing using NUnit and perform integration testing;
* Apply strict code standards guided by Visual Studio 2005 static analysis tools;
* Source Management

.NET 2.0 ASP.Net 2.0 TFS WCF SOA Web Services Oracle Microsoft SQL Server NUnit RhinoMock nTiers architecture Windows Server 2003

**Developer for the BRP BossWeb Project**August 2006 – September 2007

The BRP BOSSWeb project is the redesign of a CRM application originally built with ASP, SQL Server 2000 and SAP R3. The goals were to provide the customer with an application with the same features in a system rewritten in ASP.Net 2.0 and Ajax, SQL Server, Microsoft Office SharePoint Services and SAP XI. AndroMDA was used for code generation. On this assignment, his duties included the following:

* Develop end-to-end functional components
* Develop ASP.Net WebForms as per specifications. Improve interactivity through the integration of the AJAX Control Toolkit;
* Update design templates on Rational Software Modeler. Redefine and refine existing models;
* Build the code generation process based on AndroMDA. Develop code templates representing the targeted architecture, integrate the code generation process into the build environment;
* Build XSL transformations of the messages exchanged between BOSSWeb and SAP XI. Integrate SAP R3 and its functions into SAP XI;

ASP.Net 2.0 .NET 2.0 Ajax Control Toolkit AndroMDA Eclipse EMF NVelocity SAP R3 SAP XI Rational Software Modeler NUnit NMock Agile TFS CruiseControl .NET SQL Server nTiers architecture Microsoft Office SharePoint Services CMMi Windows Server 2003