

# Renoir Boulanger

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## SUMMARY

Experienced full-stack developer, I have a broad and deep understanding of the Open Web stack, Frontend and Server Techniques to build, deploy and maintain Web sites that scale.

- Polyglot programmer; TypeScript, ECMAScript, JavaScript, PHP, C#
- Experience in Infrastructure As Code with Salt Stack, Vagrant, Ansible, Puppet
- Contributor to open-source projects such as Nuxt.js, Alpine Linux, MediaWiki (i.e. Wikipedia.com) and Mozilla Firefox Accounts (i.e. Firefox's profile sign-in system)
- Maintained Web Hosting architecture for high-visibility sites, including W3C's [WebPlatform.org](https://www.webplatform.org/), and the [World Wide Web's 25th anniversary Site](https://www.worldwideweb.org/)
- Experience with Cloud IaaS, Containers, and maintenance of continuous deployment systems

## EXPERIENCE

### GoTo Inc. – *Staff Software Developer*

January 2021 - Present

As a "Staff Software Developer", my role was to share contribute to my team and share what I've learned along the way. The Frontend team is following principles referred to as "Micro Frontends" where each team is independent in building their application vertical. For example, one team would be responsible maintaining an Address book application. In a "Micro Frontend," we can have each team implement the business logic of their vertical, and rely on what will assemble their part with shared systems. The Shared system is what we call an "Application Shell," in which we expose utilities to make API calls with the current session. The Shell is also responsible for loading parts of each "micro frontend" vertical based on events and routes. I was part of the team responsible for maintaining the Shell.

- Help other software developers with my experience with Web Standards, Accessibility and how to maintain and bundle Frontend code to optimize re-usability and reliability.
- Contribute to the architecture of GoTo next generation micro-frontend "Application Shell" from which other experiences (e.g. meeting, contacts management, etc) runs in.

### RBC Royal Bank of Canada Inc. – *Senior Full Stack Developer*

March 2020 - December 2020

Senior Full-Stack Front-End developer to the RBC Omni platform (Online Business Banking).

- Make implementation proposals driven by the requirements and agenda set by product owners and business analysts.
- Build scalable and reusable modules by collaborating with other production teams, including the design system/platform team.
- Rewritten new developer onboarding documentation and completely automated how to properly setup the current password to be used properly through Git and other scripting, including the Bank's authoritative self-signed certificate that would cause many headaches.

## SKILLS

### Programming

PHP, C#, VCL, Bash, Python

### Web Development Languages

TypeScript, JavaScript, ECMAScript, HTML/CSS

### PHP Frameworks

Symfony, Slim, Composer/Packagist

### Frontend Frameworks

Nuxt.js, Vue.js, Koa.js, Element UI, Backbone.js, Marionette.js, Angular

### Web Development Libraries

Rollup, Bili, Rush.js

### Frontend Testing Frameworks

Jest, CodeceptJS, Playwright, AVA, Mocha, Jasmine

### Web Platform

HTML/CSS Architecture, Bundling, Transpilation, Deployment, Promises, Polyfills, Adaptive, Responsive

### Web Operations

Configuration Management, Service Monitoring, Self-Healing event handlers, Salt Stack, Node.js, Elasticsearch, Prometheus, Redis, Varnish, Docker Swarm, Dockerflow

## **CGI Inc. – Senior Technical Consultant (Lead Frontend)**

May 2017 - February 2020

Worked as a Technical Lead as part of the Global Technology Operations' own product for Multi-Cloud Management Platform called "Unify360". The application is composed by many "micro-services" where each component has a specific task. For example; Authentication, Session validation, Forms, Rendering Views, etc. I was responsible and designed ways to describe views as data, and systems to navigate data-heavy "micro-services" and normalize so that everything comes back together. I leveraged principles of "Micro Frontends" and "Atomic Design" and implemented a "Design System" and the application's specific to build visualization and of complex data and reports. The application was deployed in the USA, Europe and Canada, the Frontend were capable of properly displaying numbers and dates in all calendars, Time-Zones, and number systems, and was in more than 10 languages.

- Experiment and document Frontend software development platform technological choices
- Lead the team that work and coach for writing code with tests, making self-contained and re-usable packages

## **AlayaCare – Senior Software Developer**

November 2016 - May 2017

Software development, Simplification of Docker Compose multi-container build to be more automated and reliable build for each service and internal services.

- Overhaul of the Software development team's workspace setup, which allowed anyone to have exactly the same setup by invoking a few simple commands. A fresh computer would be ready after 1h instead of taking multiple days and asking around to other colleagues.

## **Colloquial / Betastream – Systems Delivery Blueprinting Specialist (remote)**

January 2016 - June 2016

My role was to introduce and coach the team Continuous Delivery and Code release, and deployment system. I was part of a geographically distributed Web Development and IT team ("Betastream") working on projects for Colloquial and other partner projects.

- Introduce and coach the team Continuous Delivery and Code release, and deployment system.
- Plan, Review, and Build a next-generation infrastructure and deployment system for the project production pipeline.

## **CAE – Systems Delivery Blueprinting Specialist**

March 2016 - June 2016

My role was to introduce and coach the team Continuous Delivery and Code release, and deployment system. It was a part-time, on site contract to to analyze, compare and document recommendations for an Open-Source real-time monitoring solution.

- Introduce and coach the team Continuous Delivery and Code release, and deployment system. Including techniques for preparing "playbooks" packages for deployment within the airtight (securized) private network.
- Compared Prometheus, Heka, Ganglia, Grafana, Kibana, and other TimeSeries aggregation and visualization systems. The ideal system had to take into account the airtight networking policies which included corporate TLS certificate, and deployment targets would often be inaccessible to the Internet.

## **EDUCATION**

### **Université de Sherbrooke, CeFTI**

**INF731 - Object-Oriented Programming in C#**

**INF743 - Software Architecture**

**INF747 - Designing and managing Enterprise Information Systems**

June 2024

### **Udemy**

**Nuxt.js - Vue.js on Steroids**

**Understanding TypeScript**

### **EggHead.io**

**Use Types Effectively in TypeScript**

**Up and Running with TypeScript**

**Get Started with Elasticsearch**

**Build a Server Rendered Vue.js**

**App with Nuxt and Vuex**

### **VueMastery**

**Real World Vue.js**

**Mastering Vuex**

**Next-Level Vue**

**Scaling Vue with Nuxt.js**

**Advanced Components**

### **Pearson Vue**

**Zend Certified Engineer PHP 5.3**

July 2013

### **McGill University**

**CEEN-421-761 - English in Written Communication Contexts**

**CMSC-000-781 - Foundations of Mathematics**

**CMSC-101-771 - College Algebra and Functions**

December 2013

### **University of Montreal**

**Web Accessibility (WCAG 1) at the Nazareth & Louis Braille institute**

July 2008

## **Mozilla – Subject Matter Expert Compatibility Data Project**

August 2015 - January 2016

My role was to provide an oversight of the development and participate in software architecture discussions as a subject matter expert on the Mozilla Developer Network Compatibility Data project. The Compatibility Data are what feeds developer.mozilla.org documentation pages telling developers if the feature is supported in a given Web Browser.

- Communicate with various stakeholders about the requirements and features for the system.

## **W3C/MIT – Developer Operations Engineer (i.e. "DevOps")**

August 2013 - August 2015

My role was to maintain stability, improve features, strengthen the infrastructure of the web site, and act as a technical liaison with Open-source communities. The WebPlatform Docs project was meant to become an independent Web Developer documentation site maintained by an international community of contributors, sponsored by Adobe, Apple, DreamHost, Fastly, Facebook, Google, Intel, Mozilla, Microsoft, Nokia, and Opera.

- Convert and preserve many hundred thousand edits, and keep trace of the content edition contributors and date of the change from MediaWiki into Static site generators and Git (2015)
- Improved Infrastructure deployment code so that any service could be rebuilt systematically (2015)
- Designed and Implemented Single Sign-On solution using OAuth2 (2014)

## **Ericsson – Web Developer**

February 2012 - June 2013

- Create a server on demand provision portal managing cloud computing clusters hosted in data centers geographically dispersed.
- Architect, build and lead a Web-based "Virtualization provisioning" portal. A key feature worked on was to allow users to initiate Virtual Machines from any data centres (Italy, Sweden, Canada), on any maintained cloud provider platforms (VMWare, Open-Stack).

## **Evocatio Solutions technologiques Inc. – Senior Web Developer, Co-Founder**

January 2010 - March 2012

As a Web Developer and Co-Founder, my role was to lead and architect all Web Development work related to the Frontend stack.

- Lead and architect all Web Development work related to the FrontEnd layer of the stack.
- In touch with Graphic Designers and Project Managers to create valid HTML/CSS markup that reflects the designs, and to work on all Web Browsers of the moment.
- Take Adobe Photoshop and PDFs document and create HTML/CSS Static "style guides" (minimal JavaScript, no back-end) to create CSS pattern libraries.

## **IBM**

**IBM WebSphere DataPower SOA**

**Appliance**

July 2007

## **Canadian Armed Forces**

**Basic training at Royal Military**

**College Saint-Jean**

**Private (Basic), assigned to**

**Sherbrooke 714th**

**Communication Squadron**

**Wired and wireless**

**communication and information**

**systems (Introductory training)**

**Winter warfare training**

January 2000

## **PUBLICATIONS**

- « *Techniques pour déployer WordPress de façon consistante et les rendre résilients* », WordCamp Montréal 2016  
Talk given at WordCamp Montréal 2016
- "Packaging for easier redeployment", DevOps Montréal  
Presented at two events, DevOps Montréal, PHP Québec.
- Santachè, A. "Mobile development using web technologies focusing on games", ACM, ISBN 978-1-4503-2559-2  
Participated in chapters related to "Markup architecture", "Events" and "Web Storage"
- Kumar, J. "Apache Solr PHP Integration", Pakt Publishing, ISBN 9781782164920  
Book review
- « *Comment évaluer le niveau de qualité d'un site web selon les techniques d'intégration web d'actualité.* », Web à Québec 2013  
Presented at two conferences; «Montreal WebIn», and «Web à Québec» (WAQ)

### **Groupe Informatique TechSolCom Inc. – *Web Developer***

October 2006 - August 2009

My role was to maintain the company corporate image on the web, maintain their Web site, and participate in projects run internally as a Web developer. Projects I've been involved in were written in Java, included a proprietary CI server Web Application for IBM WebSphere that was intended to be competitor to Jenkins and CruiseControl of the time, I've contributed to Inventory management application (Namminik) and a few other internal R&D experiments.

- Maintain the company corporate image on the web, maintain their Web site, and participate in projects run internally as a Web developer on R&D projects.
- Participated in maintaining company internal network, testing DataPower blade, Virtualized servers on bare metal, and web hosting infrastructure.
- Participated in building a proprietary CI server Web Application ("Beebox") for IBM WebSphere that was intended to be a competitor to Jenkins and Cruise Control of the time. (2007-2009)
- Contributed to Inventory management application ("Namminik") as an internal R&D experiments to make a Web Application also have its native iOS client. (2009)

### **Câble Axion Digitel – *Web Developer***

October 2005 - November 2006

My role was to rewrite the corporate website, maintain internal applications and answer to level-2 support calls from subscribers.

### **INEXIS Solution web Inc. – *Web Developer, President***

February 2002 - November 2006

INEXIS Solution web Inc., was a one-man web development service provider firm I founded to serve graphic design agencies in the region of the Eastern Townships. Services included managing own private Web hosting infrastructure and building HTML/CSS pages based on PDF files provided by graphic designers, creating e-mail templates.