

Bruno Pettersen-Coulombe, B.Eng.

Full Stack Developer, DevOps & QA specialist | 11+ years of experience

Montréal, CA

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Entrepreneurial background, world record holder. Passionate about efficiency, optimization, business value & continuous learning.

SKILLS

Backend

Spring Boot | Java | Tibco | Kafka | MQ |
Groovy | C# | PHP | C/C++ | Node.js | Python

Backend QA

Cucumber | JUnit | Mockito | Wiremock |
REST Assured | Spock | PHPUnit

DevOps

Docker | CI/CD | GitLab pipelines | ELK stack |
Helm | Kubernetes | Vault | Jenkins |
AutoSys Workload Automation | Swarm |
GitHub Actions | Terraform | AWS | Azure |
Ansible

Frontend

JavaScript | jQuery | CSS | HTML | React |
Docusaurus | MDX

Frontend QA

Cypress | HtmlUnit | Selenium | SauceLabs |
JUnit

Databases

PostgreSQL | Flyway | H2 | NoSQL |
SQL Server | Oracle | MariaDB/MySQL | Redis

WORK EXPERIENCE

March 2024 - July 2024 (6 months)

Backend Tech Lead, [Rona](#)

Building of 4 microservices with Spring Boot for Selling-Tools project

- Built 4 microservices: Customer-ms (handling of Rona customers), Quotes-ms (handling of custom quotes), RRS (a product data reference service), Message-Receiver (a Tibco Queue client to handle quotes updates)
- Designed & implemented 300+ Cucumber scenarios/tests for all services
- Secured services with API key authorization, Token appld authentication, XSS & Content Security Policy (CSP) protections

October 2023 - January 2024 (4 months)

DevOps Developer, [Rona](#)

Implementing the 5 GitLab pipelines (Maven, Gradle, Yarn, Npm & Go Module) for Rona development teams.

- Implemented 6 of the 23 steps for each pipeline, including DAST security & OWASP dependency scanning, Wiremock stubbing capabilities (Maven/Gradle) via Helm, Cypress for frontend testing (Npm/Yarn)
- Documented and assisted the team for the Vault HA upgrade

October 2020 - July 2023 (3 years)

SDET Tech Lead, [National Bank of Canada](#)

Automated integration tests for PaymentHubs (Swift payment backend) and ICOP - a financial transaction security application.

- ICOP: Improved the test velocity 800x by developing ~200 tests using Selenium & REST Assured, automating execution with Jenkins
- PaymentHub: Reduced code by 85% after building a new multi-JAR testing framework from scratch using Unirest, Lombok, Jackson, Provide Software libraries, object inheritance, dependency injection, Gherkin, Fail-fast principle and detailed logs
- Trained ~30 people within multiple QA teams on good Software architecture & test principles. Documented pipeline execution, code structure and maintenance guidance

August 2016 - October 2020 (4 years)

DevOps Developer, [Société Générale](#)

CGI consultant, then recruited as a permanent employee. My job was to improve production stability by automating as much as possible.

- Deployed an ELK based monitoring solution for 2,000 Autosys processes, multiples pods & software logs
- Developed ~25 scripts (bash, PowerShell) to automatize monitoring checks, recurring production failures fixes, and improve investigation time (Do-nothing scripts)
- Simplified by a factor of 10x the code for report production resulting in reduced maintenance overhead by developing a configurable report producer using Groovy and Autosys

October 2014 - May 2015 (8 months)

Software Developer, Constellio

Constellio's flagship product was an intranet search application build on Lucene. I built a modular JavaScript web client for that product.

- Deployed on the Government du Québec website, sucessfully handling 100,000+ requests/day
- Developed frontend unit tests for the web client (JUnit) and backend unit tests for Constellio (Mockito and JUnit)

January 2013 - May 2013 (5 months)

Software Developer, Equisoft

Database migration for the software Publisher Elements to Entity Framework ORM, automated email bug corrections, general maintenance. SCRUM development with JIRA project management software

January 2010 - July 2016 (2 years)

Web Developer, ServiceBPC

ServiceBPC was my own freelance company that I created to gain profesional experience during my studies. Sucessfully delivered 15 web projects.

- Built multiple transactional websites - photography shop for Les 2 Photographes, modular Magento shopping cart for Solutions Technologies, virtual ticket backend system for Heritage Software
- Developed an image upload/cropping module for FJB casting, a file upload module for Heritage Software
- Développement d'un CMS personnalisé et refonte d'un site d'actualités basé sur Wordpress pour CADS Informatique

EDUCATION

2014 - 2016

Minor, Entrepreneurship
École de technologie supérieure

2010 - 2016

Bachelor, Software Engineering
École de technologie supérieure

2007 - 2010

DEC, Computer Science
Cégep André-Laurendeau

CERTIFICATIONS

Sep 16, 2024

Docker Mastery: with Kubernetes
+Swarm from a Docker Captain
UC-1b0a0a1d-520c-48d4-b5c3-cbfa808d1f41

Sep 9, 2024

Learn DevOps: Infrastructure
Automation With Terraform
UC-9fd0722f-e01d-45d3-8f75-b47dedcf734d

Aug 28, 2024

Terraform associate
63a9c17c-3f36-4f4f-99ab-3cc1d9e2b68f

Aug 1, 2024

Azure Fundamentals
D20B621C382C8F05

Nov 4, 2023

AWS Cloud Practitioner
e7283417-5935-4b11-b498-53169f85a385

Jun 1, 2020

Ansible for the absolute Beginner
UC-6a8d8088-b7d3-4070-a43a-ffb14f2e4b34

PROJECTS

Docusaurus Blog
<https://brunopc.net/>
My online web presence

Reactsume
<https://brunopc-net.github.io/Reactsume>
React based resume with custom themes and multilanguage support

Horus
<https://brunopc-net.github.io/Horus>
A Node.js/React short term weather report

Cher Ami
Serverless Node.js email sender

Cerberus
A Python file backup application

Questrade Bot
Python Questrade stock buyer

LANGUAGES

Français
Native speaker

English
Fluent

Español
Beginner

INTERESTS

Racing
Karting | Cycling

Coaching
Speed Skating

Writing
Books, Speed Skating | Blog