

# Bruno Pettersen-Coulombe, B.Eng.

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

Montréal, CA

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🐙 [github.com/brunopc-net](https://github.com/brunopc-net) [in linkedin.com/in/brunopc](https://www.linkedin.com/in/brunopc) [twitter.com/brunopc\\_net](https://twitter.com/brunopc_net)

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 | Azure | AWS |  
Ansible | Terraform | GitHub Actions

### 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, successfully 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 professional experience during my studies. Successfully 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 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

Jan 28, 2021

**Jenkins, From Zero To Hero**

UC-f5f51268-7bf8-4856-aca7-b72cfe46810e

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