

# Bruno Pettersen-Coulombe, B.Eng.

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

Montreal, CA

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🐙 <https://github.com/brunopc-net> 🔗 <https://www.linkedin.com/in/brunopc/> 🐦 [https://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 | AWS | Ansible |  
Terraform | GitHub Actions

### Frontend

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

### Frontend QA

Cypress | HtmlUnit | Selenium | SauceLabs |  
QUnit

### Database

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

## WORK EXPERIENCE

January 2024 - June 2024

### Backend Tech Lead at [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

September 2023 - December 2023

### DevOps Developer at [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

September 2020 - May 2023

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

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

- ICOP: Improved the test velocity by 800x (1 manual test/hour to 800 automated tests/hour) 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

July 2016 - August 2020

### DevOps Developer at [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

August 2014 - March 2015

**Software Developer** at [Constellio](#)

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

- Built a modular JavaScript web client for Constellio's flagship (same name) so it could be integrated on any website. Deployed on the Government du Québec website, successfully handling 100,000+ requests/day
- Developed frontend unit tests for the web client (QUnit) and backend unit tests for Constellio (Mockito and JUnit)

December 2012 - April 2013

**Software Developer** at [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

December 2009 - June 2016

**Web Developer** at [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, a custom CMS & redesigned a news website based on Wordpress for CADS Informatique
- Developed a portfolio website for Vice Longboards, a custom Longboard company

**EDUCATION**

2013 - 2016

**Entrepreneurship Minor**  
[École de technologie supérieure](#)

2010 - 2016

**Software Engineering Bachelor**  
[École de technologie supérieure](#)

2007 - 2010

**Computer Science DEC**  
[Cégep André-Laurendeau](#)

**CERTIFICATES**

Nov 4, 2023

**AWS Cloud Practitioner**  
[Amazon](#)

Jul 20, 2023

**Start with React**  
[OpenClassroom](#)

Jul 4, 2023

**Create a Java Application with Spring Boot**  
[OpenClassroom](#)

Jan 28, 2021

**Jenkins, From Zero To Hero**  
[Udemy](#)

Jun 1, 2020

**Ansible for the absolute Beginner**  
[Udemy](#)

**PROJECTS**

**Docusaurus Blog**

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

**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**

A Python bot that buy stocks on Questrade

**LANGUAGES**

**French**

Native speaker

**English**

Fluent

**Spanish**

Beginner

**INTERESTS**

**Racing**

Karting | Cycling

**Coaching**

Speed Skating

**Writing**