

Bruno Pettersen-Coulombe, B.Eng.

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

Montreal, CA

🔗 <https://brunopc.net> ✉ work@brunopc.net

🐙 <https://github.com/brunopc-net> 🔗 <https://www.linkedin.com/in/brunopc/> 🐦 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 | Python

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

- Coding of 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)
- Design & implement Cucumber scenarios/tests for all services
- Secure 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](#)

Automatized 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](#)

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](#)

Implemented Entity framework on their subscription management software.

December 2009 - June 2016

Web Developer at [ServiceBPC](#)

ServiceBPC was my own freelance compagny that I created to gain profesional experience during my studies.

- 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