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/

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

- 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 appId 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, Prowide 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 recruted 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, sucessfully 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 at ServiceBPC
ServiceBPC was my own freelance company 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	2010 - 2016	2007 - 2010
Entrepreneurship Minor	**Software Engineering Bachelor**	**Computer Science DEC**
École de technologie supérieure	École de technologie supérieure	Cégep André-Laurendeau

CERTIFICATES

Nov 4, 2023	Jul 20, 2023	Jul 4, 2023
AWS Cloud Practitioner	**Start with React**	**Create a Java Application with Spring Boot**
Amazon	OpenClassroom	OpenClassroom

Jan 28, 2021	Jun 1, 2020
Jenkins, From Zero To Hero	**Ansible for the absolute Beginner**
Udemy	Udemy

PROJECTS

Docusaurus Blog	**Horus**	**Cher Ami**
https://brunopc.net/	https://brunopc-net.github.io/Horus	Serverless Node.js email sender
My online web presence	A Node.js/React short term weather report	

Cerberus	**Questrade Bot**
A Python file backup application	A Python bot that buy stocks on Questrade

LANGUAGES

French	**English**	**Spanish**
Native speaker	Fluent	Beginner

INTERESTS

Racing	**Coaching**	**Writing**
Karting	Cycling	Speed Skating	