Bruno Pettersen-Coulombe, B.Eng.

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

Montréal, CA

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

 github.com/brunopc-net   linkedin.com/in/brunopc   🐦 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 | QUnit

Databases

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

WORK EXPERIENCE

January 2024 - June 2024 (6 months)
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 (4 months)
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 (3 years)
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 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, 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 (4 years)
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 (8 months)
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.

- 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 (5 months)
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 (2 years)
Web Developer at at 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

2013 - 2016	2010 - 2016	2007 - 2010
Entrepreneurship	**Software Engineering**	**Computer Science**
École de technologie supérieure	École de technologie supérieure	Cégep André-Laurendeau

CERTIFICATIONS

Aug 1, 2024	Nov 4, 2023	Jul 20, 2023
Azure Fundamentals	**AWS Cloud Practitioner**	**Start with React**
Microsoft	Amazon	OpenClassroom

Jul 4, 2023	Jan 28, 2021	Jun 1, 2020
Create a Java Application with Spring Boot	**Jenkins, From Zero To Hero**	**Ansible for the absolute Beginner**
OpenClassroom	Udemy	Udemy

PROJECTS

Docusaurus Blog	**Reactsume**	**Horus**
https://brunopc.net/	https://brunopc-net.github.io/Reactsume	https://brunopc-net.github.io/Horus
My online web presence	React based resume with custom themes and multilanguage support	A Node.js/React short term weather report

Cher Ami	**Cerberus**	**Questrade Bot**
Serverless Node.js email sender	A Python file backup application	Python Questrade stock buyer

LANGUAGES

Français	**English**	**Español**
Native speaker	Fluent	Beginner

INTERESTS

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