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   in linkedin.com/in/brunopc   🐦 twitter.com/brunopc_net

Entrepreneurial background, world record holder. Passionate about efficiency, optimization, business value & continuous learning.

WORK EXPERIENCE (7)

March 2024 - July 2024 (6 months)
Principal Backend Developer, Rona

Spring Boot | Java | Tibco | Cucumber | JUnit | Mockito | Docker | CI/CD | GitLab pipelines | ELK stack | Prometheus | PostgreSQL | Flyway | H2 | NoSQL | OpenAPI/Swagger | Postman | Jira | Maven | Gradle | Git | GitLab

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

October 2023 - January 2024 (4 months)
DevSecOps Developer, Rona

CI/CD | GitLab pipelines | Docker | Helm | Kubernetes | Vault | Wiremock | Cypress | Bash | OpenAPI/Swagger | Jira | Maven | Gradle | Npm | Yarn | Visual Studio Code | Git | GitLab | JFrog

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

JUnit | REST Assured | HtmlUnit | Selenium | Saucelabs | Java | Kafka | MQ | CI/CD | Jenkins | Vault | Jira | Xray | Camunda | Postman | Maven | Git | Bitbucket | Nexus

Automated integration tests for PaymentHubs (Swift payment backend), CAO (Client Account Opening) and ICOP - a financial transaction security application.

- CAO: Automated test for 3 microservices with Rest Assured: CAOPB - client openning, ISRPB - Client registration, IIAPB - remote identification/authentication
- ICOP: Improved the test velocity 800x by developing ~200 tests using Selenium, automating execution with Jenkins
- PaymentHub: Reduced code by 85% after building a new multi-JAR testing framework from scratch using Unirest, Lombok, Jackson, 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

Java | Groovy | Kafka | Spock | ELK stack | AutoSys | PowerShell | Bash | SQL Server | Oracle | NoSQL | Gradle | Git | GitHub | Nexus

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

JavaScript | jQuery | CSS | QUnit | Selenium | Java | Mockito | JUnit | Git | GitHub

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)

January 2013 - May 2013 (5 months)
Software Developer, Equisoft

C# | Visual Studio | Jira

Database migration for the software Publisher Elements to Entity Framework ORM

January 2010 - July 2016 (2 years)
Web Developer, ServiceBPC

PHP | PHPUnit | JavaScript | jQuery | HTML | CSS | MariaDB/MySQL | Magento | Wordpress

Freelance work I did 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. Built a file upload module for Heritage Software. Developed a custom CMS and redesigned a Wordpress based news website for CADS Informatique.

EDUCATION

2010 - 2016	2014 - 2016	2007 - 2010
Bachelor, **Software Engineering**	**Minor**, **Entrepreneurship**	**DEC**, **Computer Science**
École de technologie supérieure	École de technologie supérieure	Cégep André-Laurendeau

CERTIFICATIONS

Sep 16, 2024	Sep 9, 2024	Aug 28, 2024
Docker Mastery: with Kubernetes +Swarm from a Docker Captain	**Learn DevOps: Infrastructure Automation With Terraform**	**Terraform associate**
UC-1b0a0a1d-520c-48d4-b5c3-cbfa808d1f41	*UC-9fd0722f-e01d-45d3-8f75-b47dedcf734d*	*63a9c17c-3f36-4f4f-99ab-3cc1d9e2b68f*
Aug 1, 2024	Nov 4, 2023	Jun 1, 2020
Azure Fundamentals	**AWS Cloud Practitioner**	**Ansible for the absolute Beginner**
D20B621C382C8F05	*e7283417-5935-4b11-b498-53169f85a385*	*UC-6a8d8088-b7d3-4070-a43a-ffb14f2e4b34*

PROJECTS

Docusaurus Blog	**Reactsume**	**Horus**
https://brunopc.net/	https://brunopc-net.github.io/Reactsume	https://brunopc-net.github.io/Horus
Docusaurus	React	MDX	JavaScript	Node.js	React	JavaScript	GitHub Actions	Node.js	React	JavaScript	GitHub Actions
My online web presence	React based resume One Pager	A Node.js/React short term weather report
Cher Ami	**Cerberus**	**Questrade Bot**
Node.js	JavaScript	Python	Docker	Jenkins	Python	Redis
Serverless Node.js email sender	A Python file backup script	Python Questrade stock buyer

LANGUAGES

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