Antoine Boucher

SOFTWARE ENGINEER — BACKEND / PLATFORM / DEVSECOPS

Montréal, QC, Canada

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Profile

Platform-oriented software engineer focusing on backend services, CI/CD, and developer experience. Mixes feature delivery with infrastructure-as-code, testing, and observability practices across AWS, Azure, and GCP. Open-source contributor and DevSecOps teaching assistant currently completing a Master's in Information Technology Engineering at ÉTS.

Core Skills

Languages	Python, Kotlin/Java, JavaScript/TypeScript, C++
Backend	FastAPI, Django, NestJS, Spring Boot, GraphQL, REST APIs, Microservices, Swagger/OpenAPI
Cloud	AWS, Azure, GCP, Docker, Kubernetes, Terraform, GitLab CI/CD, GitHub Actions, Nginx, Auth0
Data	PostgreSQL, MongoDB, Redis, Kafka
Quality	JUnit, Playwright (integration/E2E), SonarQube, observability/logging, feature flags

Experience

IMC2 – Institut multidisciplinaire en cybersécurité et cyberrésilience
Remote (Montréal, QC)

Developer (Permanent Part-time) — *Mar 2025 – Present*

- Built and maintained CI/CD pipelines using GitLab CI and GitLab Runners for end-to-end DevSecOps workflows
- Developed Java microservices with robust unit tests (JUnit) and integration/E2E coverage (Playwright)
- Deployed and operated services using Docker, Kubernetes, Terraform, and Nginx on Google Cloud Platform (GCP)
- Contributed to a cybersecurity risk-scoring algorithm and an Angular UI for interactive risk visualization
- **Technical Skills:** Java, Kotlin, Docker, Kubernetes, Terraform, GitLab CI, GCP, Nginx, JUnit, Playwright, Angular

Polytechnique Montréal
Montréal, QC (On-site)

Teaching Assistant, LOG8100 DevSecOps (Contract Part-time) — *Sep 2024 – Present*

- Supported lab delivery and student guidance for DevSecOps topics including Docker, Kubernetes, SonarQube
- Helped maintain course material and corrected practical assignments; assisted students with debugging and delivery practices
- **Technical Skills:** Docker, Kubernetes, SonarQube, DevSecOps

École de technologie supérieure (ÉTS)
Montréal, QC (Hybrid/On-site)

Teaching Assistant (Contract Part-time) — *Feb 2024 – Present*

- Courses: IND500 (Distributed Databases), TCH099 (Integrator Project), GTI660 (Multimedia Databases), TCH057 (Mobile UX)
- Designed/updated labs and corrected assignments covering SQL, MongoDB, Kafka, PostgreSQL, and distributed database concepts
- Supported students with debugging, architecture decisions, and project execution; helped instructors validate course infrastructure
- **Technical Skills:** SQL, MongoDB, Kafka, PostgreSQL, Distributed Databases, Android Studio, UI/UX

IONODES
Laval, QC (Hybrid)

Cloud Developer (Permanent Full-time) — *May 2023 – Aug 2023*

- Designed and implemented an Auth0-based subscription/organization permission model for an IoT platform
- Orchestrated deployments through Azure DevOps with feature flags and structured release workflows
- Improved observability with Sentry integrations and structured logging; produced/maintained Swagger/OpenAPI docs
- Gained practical exposure to ONVIF / RTP / WebRTC ecosystem constraints
- **Technical Skills:** C#, .NET, Azure DevOps, Auth0, Sentry, Swagger/OpenAPI, ONVIF, WebRTC

Intact (Co-op)
Montréal, QC (Hybrid)

Back End Developer — *Jan 2022 – May 2022*

- Built backend services supporting mobile onboarding and enrollment flows; contributed API logic for legacy + new systems
- Implemented secure auth flows including backend login and MFA / 2FA API (Kotlin)
- Improved operational visibility with Kibana dashboards and standardized error codes across microservices
- **Technical Skills:** Kotlin, Java, GraphQL, Kafka, Microservices, SAFe, Kibana

Divine Essence (Union-Nature)
Web Specialist (Contract / Consulting)

Dorval, QC (On-site)
Jun 2020 – Apr 2022

- Redesigned bilingual blog (FR/EN) and implemented custom e-commerce UI/UX changes on CommerceBuild
- Built custom "Add to Cart" API call workflow and dynamic sales labels for SEO/search optimization
- Provided tech support + internal training (HTML/CSS/JS); deployed a 3CX chatbot integration
- **Technical Skills:** HTML, CSS, JavaScript, CommerceBuild, 3CX, SEO

Power Go
Full Stack Developer (Co-op)

Montréal, QC
Sep 2020 – Apr 2021

- Built features for an inventory management system using Python/Django, Vue, and PostgreSQL
- Implemented import/export pipelines handling XML/JSON/CSV/Excel and integrated third-party APIs
- Delivered a currency exchange conversion system (CAD/USD) for inventory + synchronization
- **Technical Skills:** Python, Django, Vue, PostgreSQL, REST APIs, SCRUM/KANBAN

Wandrian
Full Stack Developer (Co-op → Part-time)

Montréal, QC
May 2019 – Jan 2020

- Worked on travel/ticketing web platform: UI redesign, payment support, and business logic implementation
- Built/reworked an automated testing setup to replace manual UI testing workflows
- Maintained compatibility fixes (including legacy browser constraints) and created supporting API endpoints
- **Technical Skills:** Python, Django, JavaScript, jQuery, REST APIs, SCRUM/KANBAN

Algolux
Algorithm Developer (Internship)

Montréal, QC (On-site)
May 2018 – Aug 2018

- Built tools and pipelines for camera/ISP testing: image capture, analysis utilities, and workflow automation
- Developed a Flask REST service for remote control/visual testing; created scripts for Linux deployment automation
- Contributed to dataset creation workflows for vision experiments (capture + annotation process)
- **Technical Skills:** Python, C++, CUDA, OpenCV, Flask, REST APIs, Linux

Algolux
IT Technician (Internship)

Montréal, QC (On-site)
May 2017 – Aug 2017

- Supported Linux/Windows workstations and server environment used for image processing experiments and REST tooling
- **Technical Skills:** Linux, Windows, Server Administration, REST APIs

École de technologie supérieure (ÉTS)
Manager, MakerSpace (Part-time)

Montréal, QC (On-site)
Sep 2018 – Apr 2023

- Operated makerspace facility (3D printers/VR/electronics), maintained equipment, and supported student projects end-to-end
- Assisted students with digital fabrication, prototyping, and innovation projects
- **Technical Skills:** 3D Printing, VR, Electronics, Equipment Maintenance, Digital Fabrication

Collégial International Sainte-Anne
Manager, MakerSpace (Part-time)

Montréal, QC (On-site)
Jan 2016 – May 2017

- Operated makerspace (3D printers/VR/electronics), maintained equipment, and supported student projects end-to-end
- **Technical Skills:** 3D Printing, VR, Electronics, Equipment Maintenance

Education

École de technologie supérieure (ÉTS)
Master's Degree, Information Technology Engineering

Montréal, QC, Canada
Aug 2023 – Dec 2025

École de technologie supérieure (ÉTS)
Bachelor's Degree, Information Technology Engineering

Montréal, QC, Canada
Sep 2018 – Apr 2023

Certifications & Programs

Certification	AWS Certified Cloud Practitioner
Programs	Programme Québécois d'Entrepreneuriat Scientifique (QcES)
Cloud Quest	Data Analytics, Networking, Cloud Practitioner, Machine Learning, Serverless Developer, Solutions Architect

Selected Projects (Most Relevant)

uml-mcp, D2COpenAIPlugin, plantumlapi   *Open Source*
UML / Diagram tooling

- uml-mcp — UML diagram generation tool/server (MCP-based) enabling diagram creation from natural language
- D2COpenAIPlugin — Plugin that generates diagrams (PlantUML, Mermaid, Diagrams) from prompts; developer tooling focus
- plantumlapi — Python interface around PlantUML web workflows and diagram generation

another-install-script, retroarch-web-games   *Open Source*
Automation / DevOps / Self-hosting

- another-install-script — Menu-based script to install/operate multiple Docker containers and system configuration (Docker/Ansible)
- retroarch-web-games — Dockerized Retroarch web setup (self-hosting + packaging)

marketwatch (PyPI), hass_renpho, Serilog.Sinks.SentrySDK   *Open Source*
Integrations / Data

- marketwatch (PyPI) — Python library to interface with MarketWatch virtual trading platform (watchlists, portfolio, leaderboard)
- hass_renpho — Home Assistant integration for Renpho scale metrics; custom integration + automation plumbing
- Serilog.Sinks.SentrySDK — Serilog sink simplifying Sentry error/log management in .NET

Snapchat Lenses   *2017–2020*
AR / Creator work

- 42 lenses created; reported totals: 6.2M plays, 12.1M views, 614.8k shares