

# Antoine Boucher

SOFTWARE ENGINEER // AWS CERTIFIED CLOUD PRACTITIONER

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## Profile

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**Bachelor's Degree** in Information Technology Engineering from École de technologie supérieure. **Open source contributor.**

**Certificat d'accomplissement Programme Québécois d'Entrepreneuriat Scientifique (QcES)**

**Languages:** Python, Kotlin/Java, JavaScript, C++

**Backend:** FastAPI, Django, NestJS, Spring Boot, GraphQL

**Databases:** PostgreSQL, MongoDB, Redis

**Frontend:** React, Vue

**Cloud Services:** AWS, Azure, Vercel

**AWS Cloud Quest:** Data Analytics, Networking, Cloud Practitioner, Machine Learning, Serverless Developer, Solutions Architect

## Experience

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### École de technologie supérieure (ÉTS)

Montreal, On-Site

Contract Part-time Teacher Assistant

Sep 2025 - April 2025

- TCH099 Project Management: Corrected practical applications and answered students' questions about course material
- **Technical Skills:** PHP, Web Dev, Mobile App, API, Database, Azure
- **Soft Skills:** Teaching, Communication, Agile Methodology, SCRUM, Assessment

### Polytechnique Montréal

Montreal, On-Site

Contract Part-time Teacher Assistant

Sep 2024 - Dec 2024

- LOG8100 DevSecOps - Operations and dev. secure software: Corrected practical applications and answered students' questions about course material
- **Technical Skills:** Azure, SonarQube, Security, Kubernetes, Docker, GitOps, Azure
- **Soft Skills:** Teaching, Communication, Agile Methodology, SCRUM, Assessment

### École de technologie supérieure (ÉTS)

Montreal, On-Site

Contract Part-time Teacher Assistant

Feb 2024 - Now

- TCH057 Mobile Applications and User Experience, GTI660 Multimedia Databases, TCH099 IT integrator project
- Corrected practical applications and answered students' questions about course material for both TCH057, GTI660, TCH099
- **Technical Skills:** PostgreSQL, Python, Android Studio, UI Design, Prototyping, PgVector, Azure
- **Soft Skills:** Teaching, Communication, Agile Methodology, SCRUM, Assessment

### IONODES

Laval, Hybrid

Cloud Developer

May 2023 - Aug 2023

- Designed and implemented a 3-tier subscription system with organization-based permissions using Auth0 for the IoT platform.
- Developed Sentry SDK integrations in C to enhance logging with Serilog.
- Acquired knowledge on ONVIF and WebRTC.
- **Technical Skills:** .NET6, UML, Word, Azure, Microservices, Auth0.
- **Soft Skills:** Design, Deployment, Documentation.

### Intact Labs

Montreal, Hybrid

Backend Developer

Jan 2022 - Apr 2022

- Developed a microservice for new client registration for the Belairdirect and Intact mobile applications using Kotlin and GraphQL under SAFe methodology.
- Enabled inter-microservice communication with GraphQL and Kafka for insurance user data.
- Implemented a 2-factor authentication (2FA) API for the mobile application.
- **Technical Skills:** Kotlin, Java, Microservices, GraphQL, Kafka.
- **Soft Skills:** SAFe, Kanban, Scrum, Collaboration.

### Power Go

Montreal, At Home

Full Stack Developer

Sep 2020 - May 2021

- Created tables for managing the sale of used vehicles on resale sites like Facebook Marketplace and AutoHebdo, and imported/exported specialized data for communication with APIs (XML, JSON, CSV, EXCEL).
- **Technical Skills:** Python, Django, JavaScript, VueJS, PostgreSQL.
- **Soft Skills:** Kanban, Scrum, Client Feedback, Specification.

## **Divine Essence/Union-Nature**

### **Web Specialist**

- Developed custom add-to-cart API calls for Commercebuild to streamline the purchasing process.
- Provided technical support and managed the messaging support line.
- Implemented and managed 3CX chat bots to improve customer interaction.
- **Technical Skills:** JavaScript, HTML, CSS, API Development.
- **Soft Skills:** Client Communication, Problem-solving, Time Management.

Dorval, Hybrid

Jun 2020 - Dec 2020

### **Wandrian**

#### **Full Stack Developer**

Montreal, On Site

May 2019 - Jan 2020

- Used a graphic design system for web components on shop.italiarail.com and implemented business logic for the train ticketing system.
- Developed an end-to-end automated testing system to replace manual interface tests (TestRail), and ensured Internet Explorer 11 compatibility of the website.
- Created an API endpoint for the train ticketing system.
- **Technical Skills:** Python, Django, JavaScript, JQuery.
- **Soft Skills:** Kanban, Scrum, Full Stack, Testing.

## **Education**

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### **École de technologie supérieure (ÉTS)**

#### Master's Degree in Information Technology Engineering, M. Ing.

Montreal, Canada

Sep 2023 - Dec 2025

- Activities and societies: Mentoring at AlgoÉTS
- Computer-aided fabrication and validation of 3D surfaces with friction, data-driven with Sheldon Andrews
- Scholarship for master thesis 15000 \$

### **École de technologie supérieure (ÉTS)**

#### Bachelor's Degree in Information Technology Engineering

Montreal, Canada

Sept 2017 - Apr 2023

- Specialization in Cloud Infrastructure
- AlgoETS Club Admin 2023-2024

### **Collégial Sainte-Anne**

#### Cégep Diploma in Pure Science

Lachine, Canada

Sept 2015 - Jun 2017

- Manager of the MakerSpace
- Internship Algolux (Pipeline Camera Optimisation)

## **Projects**

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### **AlgoÉTS**

#### Co-President

École de technologie supérieure

Jan 2023 - Now

- Organized and led meetings and workshops.
- "Python for Backtesting 101 Workshop".
- Data science project: salary analysis, etc.
- Monte Carlo stock prediction model to simulate and predict stock prices.
- Managed the administration and financing of the AlgoÉTS club.
- Created a real-time simulator for stock market research.