

ALEXANDRE THIBESSART

Backend Software Developer

Python, Rust and Java backend developer with 5+ years of experience at the Government of Canada building cloud APIs and CI/CD pipelines.

Passionate about computer programming and always tinkering. Open to remote or relocation.

Gatineau, QC, Canada (819) 981-1195 alexandre.thibessart@outlook.com <https://alexforhire.dev>

PROFESSIONAL EXPERIENCE

Data Analyst Software Developer (IT-02)

June 2024 - May 2026

Employment and Social Development Canada

Gatineau, QC, Canada

- Led backend and data integration for a cross-team financial reporting project, tracking multimillion dollars in IT investments.
- Built pipelines ingesting from multiple sources. Working closely with non-technical stakeholders. Shifting reporting from monthly to daily.
- Drove team agility by managing DevOps boards, improving work item definition, and advocating for process improvements.

DevOps Software Developer (IT-01)

June 2023 - June 2024

Employment and Social Development Canada

Gatineau, QC, Canada

- Built Python validation tooling to pre-emptively catch deployment failures, enabling the team to scale to ~25 weekly deployments.
- Maintained and debugged Kubernetes and Azure API Management deployments supporting benefit delivery to more than 50k Canadians.
- Worked with Ansible and Terraform infrastructure for server and service provisioning, contributing to consistency across deployments.
- Collaborated with 5 developer teams for deployment operations through documentation and hands-on debugging sessions.

Backend Software Developer (IT-01)

January 2021 - June 2023

Employment and Social Development Canada

Gatineau, QC, Canada

- Implemented Spring Boot microservices modernizing legacy Cobol/SOAP integrations, serving data transformation through OpenAPI.
- Explored and prototyped emerging technologies including distributed ledger (Hyperledger Fabric) observability tooling, and cloud functions.
- Participated in student interviews and mentoring to introduce junior developers on technical concepts and tooling.
- Built and templated CI pipelines for Java/Maven artifact management and PR workflows, with adoption spreading to 3 additional teams.

Personal Projects

- **ESP32 LED Cube** Rust 3D printed cube with 16x16 LED panels, audio reactive and controlled with MQTT. 2026
- **Cloudflare Dynamic Public IP** Rust Service for homelabs to fix broken DNS entries as ISP changes the public IP. 2024
- **PathSchema** Python CLI to validate complex file structures in CI/CD by referencing a schema file. 2023
- **Prometheus Extension for Discord bot** Python Library for exporting bot metrics to Prometheus with Grafana dashboard. 2022

Open Source Contributions

- **Slint UI (SixtyFPS)** Rust Allowed the GUI application menu bar to dynamically follow the system color scheme. 2025
- **Azure CLI (Microsoft)** Python Added label support to the pull request creation command. 2023
- **Azure CLI (Microsoft)** Python Added required and optional reviewer support to the pull request creation command. 2023

EDUCATION

Object Oriented Programming and Web Technologies

October 2019 - September 2021

College certificate (AEC) at **Cégep de Rosemont**

Montreal, QC, Canada

Machining Technique

April 2017 - July 2018

Trade certificate (DEP) at **Centre d'études professionnelles Saint-Jérôme**

Saint-Jerome, QC, Canada

SKILLS

Programming Languages

Rust, Python, Java/C#, Powershell

Cloud & Hosting

Linux, Azure, Docker, Kubernetes

Web Technologies

FastAPI, Spring Boot, OpenAPI

Spoken Languages

Fluent in English and French

CI / CD

Azure Pipelines, GitHub Actions, Terraform, Ansible

Databases

PostgreSQL, InfluxDB, MongoDB