

# ALEXANDRE THIBESSART

## Backend Software Developer

Python, Rust and Java backend developer with 5+ years of experience at ESDC. Building cloud APIs and CI/CD pipelines.

Passionate about clean systems and seeking challenges. Open to remote or relocation.

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## PROFESSIONAL EXPERIENCE

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### Data Analyst Software Developer (IT-02)

Employment and Social Development Canada

June 2024 - Present

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)

Employment and Social Development Canada

June 2023 - June 2024

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)

Employment and Social Development Canada

January 2021 - June 2023

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

- **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 by referencing a schema file. **2023**
- **Prometheus Extension for discord.py** Python Library for exporting Discord 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

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### Object Oriented Programming and Web Technologies (ACS)

Cégep de Rosemont

2019 - 2021

Montreal, QC, Canada

### Machining Technique (DVS)

Center of Professional Studies of Saint-Jerome

2017 - 2018

Saint-Jerome, QC, Canada

## SKILLS

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### 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