Ahmed Oumerhouch

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Education

École de Technologie Supérieure (ÉTS)　　　　　　　　　　　**In Progress**
Bachelor of Software Engineering　　　　　　　　　　　　　　*Montreal, QC*

Collège de Rosemont　　　　　　　　　　　　　　　　　　**Graduated 2021**
Diploma in Computer Science (DEC - Technical)　　　　　　　*Montreal, QC*

Experience

Hydro-Québec　　　　　　　　　　　　　　　　　**Jan 2024 – Dec 2024**
Software Engineering Intern　　　　　　　　　　　　　*Montreal (Hybrid)*

- Developed **Python** and **Ansible** scripts using the **Cisco Catalyst Center** API to automate the configuration and management of network equipment.
- Created a Python application with **Tkinter** to automate the deployment and updating of Motorola radio terminals.
- Utilized **Jinja** templates to generate dynamic configurations, facilitating subsequent adjustments.
- Collaborated closely with telecommunications and cybersecurity specialists to ensure solutions met internal standards.
- Documented all scripts and procedures to streamline maintenance and knowledge transfer.

Desjardins　　　　　　　　　　　　　　　　　　**May 2022 – Aug 2022**
Software Engineering Intern　　　　　　　　　　　　　*Montreal (Remote)*

- Optimized and enhanced existing microservices by coding additional features in **Java** to improve system interoperability.
- Automated unit and integration tests, ensuring the reliability of the CI/CD pipeline.
- Improved continuous deployment processes and validated data integrity using advanced **SQL** scripts.
- Applied best cybersecurity practices to secure microservices and APIs.

Desjardins　　　　　　　　　　　　　　　　　　**Feb 2021 – May 2021**
Development Intern　　　　　　　　　　　　　　　　*Montreal (Remote)*

- Participated in the initial design of microservices using **Java** and **SQL**, focusing on bug resolution and query optimization.
- Debugged and corrected issues, contributing to system stability improvements.
- Collaborated in team meetings to identify and implement effective technical solutions.

Technical Skills

Programming Languages: Java, Python, PHP, TypeScript, HTML, CSS
Frameworks: Spring Boot, Django, FastAPI, Bootstrap
Databases: MySQL, PostgreSQL, Oracle Database, Microsoft SQL Server, SQLite
Cloud & DevOps: Ansible, SonarQube, Docker, Chaos Monkey, CI/CD
Tools: Git, GitLab, GitHub, VIM, VS Code, JetBrains tools, Bitbucket, Jira, Confluence, Microsoft Teams, Postman, npm, Maven/Gradle, Poetry, VirtualBox/VMware
Spoken Languages: French (native), English (intermediate), Arabic (intermediate)

Projects

JINJA Simulation Tool | *Python, Tkinter, Jinja2* | GitHub　　　　　　　**2024**

- Developed a graphical user interface (GUI) in Python using **Tkinter** for dynamic template rendering via **Jinja2**.
- Enabled users to combine variable files (JSON, YAML, Jinja) with templates to generate customized content.

Financial Data Automation Tool | *Python, XML, Telegram API* | GitHub　　**2024**

- Created a Python script to automate downloading, extraction, and analysis of financial disclosure files in XML format.
- Integrated a Telegram bot to notify important updates and implemented cleaning mechanisms to optimize disk space and ensure continuous operation.