

# TAHA EL MOUATADIR

Ottawa, ON

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## Education

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### University of Ottawa

*Bachelor of Applied Science in Software Engineering (Co-op) — with distinction, Cum Laude*

Sep. 2018 – Dec. 2022

Ottawa, Ontario

## Experience

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### Government of Quebec

*Software Engineer — Data*

Mar. 2024 – Present

Ottawa, Quebec

- Developed a **Python** program by **reverse-engineering** a set of public websites' **APIs** to automate data flow.
- Optimized **SQL** queries to reduce data loading times by up to 5 times, improving performance and reducing costs.
- Designed data flows in **Microsoft Fabric**, automating **Power BI** dashboard refreshes and ensuring real-time updates.

### Cisco Systems, Inc.

*Software Engineer — DevOps*

Jan. 2023 – Aug. 2023

Toronto, Ontario

- Built **Docker** images for 5 services and deployed them using **Kubernetes**, **Helm** charts and **SonarQube** on **AWS**.
- Redesigned the **build process** of CLI Analyzer for Apple M1 chips and authored **documentation** for future use.
- Migrated **CI/CD** pipelines for 4 apps from **GitLab** to open-source **Concourse**, ensuring **compliance** with policies.

### University of Ottawa

*Teaching Assistant*

Sep. 2022 – Dec. 2022

Ottawa, Ontario

- Organized and taught **Python** and programming concepts (*OOP, Recursivity...*) to undergraduate students weekly.
- Automated assignment correction for 100+ students, reducing grading time by 75% through functionality evaluation.

### Tehama Technologies

*Software Engineer Intern — Back-end*

May 2022 – Aug. 2022

Ottawa, Ontario

- Implemented 5 new features using **TypeScript**, **JEST** and **Cypress** for a remote Windows/Linux desktop application.
- Automated **EC2** infrastructure provisioning and **ECS/ECR** for building images and orchestrating containers.
- Wrote **Bash** scripts to enforce security policies on newly provisioned machines, ensuring compliance with **standards**.

### Mitel

*Software Engineer Intern — Front-end*

May 2021 – Aug. 2021

Ottawa, Ontario

- Improved 7 **Angular** components to deliver a smooth and responsive user experience for a video conferencing app.
- Wrote a test suite for each code change using **Protractor** for comprehensive e2e testing, ensuring app stability.

### Kinaxis

*Software Engineer Intern — Full-stack*

Sep. 2020 – Dec. 2020

Ottawa, Ontario

- Monitored the **health** and **performance** of Kinaxis Solutions (RapidResponse, Maestro...), ensuring smooth operation.
- Developed dashboards in **.NET**, **Razor**, and **D3.js** providing intuitive graphs, helping make better business decisions.
- Wrote a **C#** console app, to automate a weekly 2-hour process of rewriting tickets between a **SQL** database and **Jira**.

### Payments Canada

*Software Engineer Intern — Full-stack*

Jan. 2020 – Apr. 2020

Ottawa, Ontario

- Resolved bugs in the backend API (**Java**, **Spring**) of the FIF system, supporting the Canadian financial institutions.
- Implemented fixes in the **Angular** frontend to ensure seamless integration with ongoing changes in the backend API.

### ADNM International

*Software Engineer Intern — Front-end*

Sep. 2021 – Dec. 2021

Montreal, Quebec

- Developed prototypes in **InVision** for (TAG), an EAM solution used to monitor industrial processes and equipment.
- Built **Angular** components using **HTML**, **CSS**, **TypeScript**, and a **JSON API** to enhance TAG's user experience.

## Technical Skills

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**Programming Languages:** Java, Python, Bash, Go, Rust, SQL, JavaScript, TypeScript, C++, HTML/CSS

**Frameworks & Libraries:** React, Node.js, Django, Angular, Flask, JUnit

**Developer Tools:** Git, Docker, Kubernetes, Jenkins, CircleCI, VS Code, IntelliJ, Pycharm, Vim

**Cloud Platforms:** GCP (Firebase, Firestore), AWS (EC2, ECS, ECR), Azure (Data)

**GNU+Linux:** Services, Permissions, Firewall, Networking, Filesystems