

# SOUHAIL MARAOUI

Software Engineer

## CONTACT

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## SKILLS

### Programming Languages

- JavaScript
- Java
- Python
- C#
- HTML, CSS

### Environments & Frameworks

- ReactJS
- Node.js
- Spring Boot
- Kubernetes
- Gitlab CI/CD
- Jenkins

### Platforms

- Google Cloud
- Firebase
- Tensorflow

## SIDE PROJECTS

**NoteApp** A note taking web app for collaborative editing with sockets connection (using Yjs)

**Gesture Recognition** Used machine learning to build an app to control OS elements like cursor using the hand gestures.

**Metacritic Scrapper** Wrote a script to pull user reviews for any game or movie and parse them to an XML database.

**Java Game** Built a custom Game Engine using Java and created a turn-based RPG.

## EXTRA

- Winner of Elasticsearch's competition, **Capture the Bug**
- President of the English debating club in INPT

## EXPERIENCE

### DevOps and System Administrator

*AMI Lab, Université de Sherbrooke, Canada*  
Sep 2021 – Dec 2023

- Configured CI/CD with Gitlab CI and Jenkins pipelines.
- Maintains the Lab's infrastructure and servers (Gitlab, Rancher and Kubernetes clusters, databases clusters, networking with OpenVPNs, PowerDNS, and Firewalls, Nginx server and rules, etc.)
- Created a Continuous deployment tool using NodeJS that takes as input a **docker compose** file and deploy on the server hosting the tool.
- Handled IT communication with the university (requests and tickets).

### Full-Stack Developer

*AMI Lab, Université de Sherbrooke, Canada*  
May 2021 – Dec 2023

- Built Three-Layered Security used in all lab projects.
- Built a web app to design and create online forms with features such as logic to skip questions based on the response, and support of multiples languages.
- Managed a team of 2 developers to build a ReactJS frontend and Spring Boot backend in collaborations with Maison Jeunes-Est to digitize their process of helping and proving guidance to young students.
- Built in the context of a PhD thesis a navigation app Mobilainais, by integrating APIs from OpenStreetMaps, Google Maps, Transit, and OpenWeather.

### Research Assistant

*Université de Sherbrooke, Canada*  
May 2021 – Jan 2023

- Managed and followed up with students on their research projects, including evaluating their work, reviewing code, and providing feedback.
- Conducted extensive data collection, parsing, and filtering tasks, over large datasets for data analysis.

### Software Developer

*Office du Développement De La Coopération (ODCO), Morocco*  
Jan 2020 – Aug 2020

- Created a web application to digitize the process of managing, monitoring and assessing local cooperatives.

## EDUCATION

### Master of Computer science (Cumulative GPA 4.2)

*Université de Sherbrooke, Canada*  
Jan 2022 – Jan 2024

### Postgraduate Degree (Cumulative GPA 4.07)

*Université de Sherbrooke, Canada*  
Jan 2021 – Dec 2021

### Software Engineering Degree (Cumulative Avg. 81%)

*Institut National des Postes et Télécommunications, Morocco*  
Sep 2018 – Jun 2021

## PUBLICATIONS

### Drug Intervention Follow up with Internet of Things: A Case Study.

ICOST 2023. Lecture Notes in Computer Science, vol 14237. Springer, Cham.  
[https://doi.org/10.1007/978-3-031-43950-6\\_6](https://doi.org/10.1007/978-3-031-43950-6_6)

### IoT Architecture with Plug and Play for Fast Deployment and System Reliability:

**AMI Platform.** ICOST 2022. Lecture Notes in Computer Science, vol 13287. Springer, Cham.  
[https://doi.org/10.1007/978-3-031-09593-1\\_4](https://doi.org/10.1007/978-3-031-09593-1_4)

### Toward a Trip Planner Adapted to Older Adults Context: Mobilainés Project.

ICOST 2022. Lecture Notes in Computer Science, vol 13287. Springer, Cham.  
[https://doi.org/10.1007/978-3-031-09593-1\\_8](https://doi.org/10.1007/978-3-031-09593-1_8)