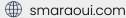
# SOUHAIL MARAOUI

# Software Engineer

### CONTACT

**819 570 0995** 



im linkedin.com/in/smaraoui

### **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 Yis)

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.

### **FXTRA**

- 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

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

Toward a Trip Planner Adapted to Older Adults Context: Mobilaînés Project. ICOST 2022. Lecture Notes in Computer Science, vol 13287. Springer, Cham. https://doi.org/10.1007/978-3-031-09593-1\_8