

# Samy Harras

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## Education

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### McGill University

August 2022 - April 2026

*Bachelor of Engineering (BEng) - Computer Engineering*

*Minor in Applied Artificial Intelligence*

- **Relevant Courses:** Software Engineering Practice, Machine Learning for Engineers, Computer Organization, Algorithms and Data Structures, Model-based Programming, Intro to Software Engineering, Intro to Software Systems, Electronics, Microprocessors

## Work Experience

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### Orange

May 2024 – August 2024

*Full Stack Engineer & Project Manager Intern*

- Architected and implemented a web platform for Orange Fab from the ground up, boosting visibility of startups and Orange Fab activities by over **60%** with a modular frontend (**HTML**, **CSS**, **JavaScript**, **Bootstrap**) and a robust backend (**Django**, **Python**, **SQLite**, **Axios**).
- Integrated an AI chatbot and dynamic back-office into the Orange Fab platform, increasing user engagement by **65%** and allowing admins to efficiently manage content using **Django REST Framework** and **Axios**.
- Developed a matchmaking platform from scratch for investor-startup events at GITEX, increasing event efficiency by **60%** and managing data for **20+** investors and **80+** startups.
- Led technical mentorship for **10+** startups in collaboration with the Fab Lab team, accelerating product development by **50%** by providing expert guidance on software and hardware engineering, and delivering high-impact workshops on entrepreneurship and pitch preparation.

## Projects

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### Orange Fab Maroc Platform | *Website*

**Django (Python) | Bootstrap | JS | HTML | CSS**

- **Developed** a scalable platform to efficiently manage and showcase startups and activities within the Orange Fab ecosystem. Integrated an advanced **AI chatbot** to provide targeted support, significantly enhancing the **UX** for both startups and investors.
- **Utilized Django** to architect a secure and performant backend, including APIs for seamless data integration. Employed Bootstrap to create a responsive and user-friendly interface for the back-office management platform. Implemented **HTML**, **CSS**, and **JavaScript** for an intuitive user interface, and developed a **Python**-based chatbot trained on web-scraped data, stored in a **MongoDB** database.

### Matchmaking Platform | *Website*

**JavaScript | HTML | CSS | Firebase**

- **Engineered** a dynamic real-time matchmaking platform that seamlessly facilitated investor-startup meetings during **GITEX**. The platform featured a secure login system, with user credentials and profiles pre-configured by the admin, ensuring a streamlined experience.
- Leveraged **JavaScript** to drive the core functionality of the web application, while **HTML** and **CSS** were meticulously crafted to deliver a responsive and engaging **UI**. Integrated a **Firebase real-time database** to ensure seamless, scalable data management, enabling instantaneous updates and a smooth **UX**.

### WareFlow | *GitHub*

**Java | JavaFX | UML**

- Developed an inventory management system focused on optimizing product flow and minimizing delays in shipment processing. Utilized **Java** and **JavaFX** to create a user-friendly interface and integrated real-time data processing to manage high volumes of transactions, ensuring efficiency and scalability for large-scale operations.

## Technical Skills & Certifications

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- **Programming Languages:** Python, Java, JavaScript, C, HTML, CSS, MATLAB, Assembly, VHDL
- **Developer Tools:** Git, Github, AWS, Postman, Azure, Jira, Quartus, Vim, Bash, PostgreSQL, MongoDB
- **Libraries/Frameworks:** Django, Axios, SQLite, Bootstrap, Spring, ReactJS, VueJS, NodeJS
- **Certifications:** AWS Cloud Practitioner
- **Languages:** English, French, Arabic, Spanish, Mandarin