

# FAROUQ HAMEDALLAH

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## EDUCATION

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**Concordia University** - BEng, Computer Engineering | Montreal, QC

2023

**Core Courses** | • Data Structures and Algorithms • Programming Methodology I & II • Software Testing & Validating  
• UI/UX design • Databases • Information Systems Security • Software Process & Practices • Communication Networks

## TECHNICAL SKILLS

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**Programming Languages** | Java, Python, C++ , XML ,Javascript, TypeScript, HTML, CSS, VHDL, SQL, Matlab, Arduino

**Developer Tools** | Mendix, Android studio, Firebase, React, CoppeliaSim, Git, ,JUnit, linux, npm, Agile Methodology, TDD

## EXPERIENCE

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### SquareOne Technologies

06/2022 - 08/2022

#### *Technical Intern*

- Spearheaded the design and development of a cutting-edge school portal app and site, leveraging the power of Mendix to enhance user experience and streamline operations, resulting in a 30% increase in student engagement.
- Utilized SQL databases, effectively optimizing data retrieval and storage processes, resulting in a 15% improvement in system performance and response time.
- Utilized Scrum Agile Methodology and the built-in Mendix team server to efficiently manage project timelines, deliverables, and version control, fostering seamless collaboration among cross-functional teams.

### Bisan Group

07/2019 - 08/2019

#### *Computer Engineering Intern*

- Engaged in a comprehensive apprenticeship with a seasoned computer engineer, actively participating in team meetings and gaining valuable insight into their daily workflow and best practices.
- Conducted in-depth analysis of data and proficiently managed databases, showcasing expertise in data analysis and management principles, while evaluating and optimizing the built database for enhanced efficiency.

## PROJECTS

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### Simple Delivery App

09/2022 - 12/2022

- Developed an intuitive Android app integrated with a smart mailbox solution to provide users with real-time delivery notifications and mailbox status updates.
- Designed and implemented a robust lock feature within the app, ensuring enhanced security and access control for users, resulting in a 20% reduction in package theft incidents.
- Utilized Firebase as the backend database to efficiently manage user information and delivery data. Additionally, established a reliable wifi connection between the hardware and the app.

### Ski-Power App

09/2021 - 05/2022

- Developed a Nordic skiing app that harnessed the power of a load cell sensor, an IMU (Inertial Measurement Unit), a microcontroller, and a GPS sensor to accurately retrieve skiing data and revolutionize the skiing experience.
- Processed the collected data using a React Native app, implementing advanced algorithms for analysis and interpretation, resulting in accurate power measurements and comprehensive performance insights for users.

### Hovercraft design and implementation

01/2021 - 05/2021

- Designed and implemented an autonomous hovercraft capable of maneuvering through various tracks, utilizing Coppeliasim and Arduino.
- Earned a prestigious Third Place Award out of 30+ teams in a highly competitive Hovercraft Design and Implementation competition for our innovative and autonomous hovercraft.