Mickel Samuel

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Linkedin | Github | Portfolio

SKILLS

Programming Languages | C++, Python, Java, C, Assembly Language, HTML, CSS, JavaScript, PHP, VHDL, ARM, XML, R, SQL, TypeScript

Web Technologies | React, NextJS, Bootstrap, Mantine UI, MongoDB, APIs

Frameworks & Tools | Xcode, Visual Studio, IntelliJ IDEA, PocketBase, Android Studio, Git, Github, Verilog, FPGAs, MATLAB, ModelSim, Xilinx Tool, UML, Docker

Operating Systems | Windows, Linux, MacOS, Mobile

Methodologies | Agile/Scrum, Full-Stack Web Development, Object-Oriented Programming, Software Engineering Principles, Numerical Analysis

Languages | English (spoken & written - fluent), French (spoken & written – intermediate), Arabic (spoken & written - fluent)

PROJECTS

AgendaMate App 2024

- Designed and **developed** a comprehensive **iOS** task management app incorporating journaling, notes, and real-time weather updates using **SwiftUI**, **Core Data**, and a Weather **API**.
- Integrated task scheduling with the native calendar and notification system through **EventKit**.
- Enhanced **security** by implementing **Face ID** and **passcode protection**, **ensuring** user data privacy.

Patient Monitoring Android App 2024

- Led a team as **Scrum Master** to develop an **Android app** for **real-time monitoring** of elderly patients' vital signs, including heart rate, temperature, and oxygen levels.
- Integrated sensor-based data collection and developed alert systems for immediate health anomaly **notifications**.
- Ensured **data security** and **privacy compliance** by leveraging local data storage, with a user-friendly interface built on **Android frameworks**.

Real Estate Website 2023

- Developed a dynamic **full-stack web application** using **Next.js**, **React**, and **PocketBase** for managing real estate transactions, targeting buyers, renters, and brokers.
- Spearheaded **front-end** design implementation with **Mantine UI** while ensuring seamless **back-end data management**.
- Applied **agile** methodologies to streamline project management and ensure timely deliverables.

Hovercraft Project 2023

- Designed and engineered an autonomous hovercraft powered by **Arduino**, integrating sensors and fans for real-time obstacle detection and navigation.
- Programmed efficient obstacle avoidance and stability systems, enabling the hovercraft to successfully complete an obstacle course with optimal lift and balance.

Portfolio Website. 2023

- Created a personal portfolio website using **HTML**, **CSS**, and **JavaScript**, showcasing professional projects and skills.
- Deployed the site via **GitHub** Pages with basic **SEO** strategies to enhance online visibility.

EDUCATION

Bachelor of Engineering – Computer Engineering Career Edge (C.Edge) 2022 – 2026 (Expected)
Concordia University, Montreal, QC

- Software Process and Practices (JavaScript, CSS, Python), Data Structures and Algorithms (Java), Operating Systems (C, Java), Digital Systems Design (VHDL), Computer Organization and Software (x86 Assembly), Programming Methodology (C++), Communication Networks and Protocols (Python), Real-Time Systems, Numerical Methods (MATLAB), Networks Security and Management (Python, Wireshark), Artificial Intelligence (Python)

WORK EXPERIENCE

Inventory Clerk 2021-2022
Distribution Regitan, Dorval, QC

- Provided excellent customer support, resolving inquiries efficiently while maintaining accurate inventory records and ensuring smooth operations across all locations.

VOLUNTEER WORK

Open House Representative 2022-2024
Concordia University, Montreal, QC

- Showcased leadership by coordinating tour schedules and managing large groups, ensuring all attendees received detailed information and felt welcome.
- Demonstrated strong communication skills by clearly articulating complex academic programs and answering diverse questions from prospective students and their families.

Tutor
Emmanuel Christian School, Dollard-Des Ormeaux 2019 - Present

- Provided individualized tutoring for elementary and high school students, helping them achieve academic success.
- Enhanced students' problem-solving skills by breaking down complex subjects into manageable concepts and guiding them through challenging problems.