

Mickel Samuel

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[Portfolio](#)

SKILLS

Programming Languages: C++, Python, Java, C, Assembly (x86, ARM), Swift, Kotlin, JavaScript, TypeScript, PHP, R, SQL, HTML, CSS, XML, VHDL

Web & Mobile Technologies: React, Next.js, Node.js, Express.js, Bootstrap, Mantine UI, Expo/React Native, PocketBase, REST/GraphQL APIs

Frameworks & Tools: Android Studio, Xcode, IntelliJ IDEA, Visual Studio, Git, GitHub, Docker, Firebase, AWS (basic), Verilog, FPGA (Xilinx), MATLAB, ModelSim, UML, Unit Testing (Jest, JUnit, etc.)

Databases: MongoDB, MySQL, PostgreSQL, SQLite, PocketBase

Operating Systems: Windows, Linux, macOS, Mobile (iOS, Android)

Methodologies & Practices: Agile/Scrum, Object-Oriented Programming, Full-Stack Development, Software Engineering Principles, DevOps (basic Docker), Numerical Analysis, Progressive Web Apps

Languages: English (Native), French (Professional Working Proficiency), Arabic (Native)

PROJECTS

- GymTrackPro (2025)**
- Cross-platform workout app (React Native/Expo) with progressive overload tracking and offline storage.
 - Created custom exercise library, integrating user analytics for real-time, personalized workout plans.
 - **Teach Stack:** React Native (Expo), JavaScript/TypeScript, AsyncStorage, JSON data, Native animations, Additional research-based workout calculations.
- Patient Monitoring Android App (2024)**
- Monitors vital signs (heart rate, temperature, SpO2) in real-time, with sensor integration and alert notifications.
 - Ensured data privacy/security and a user-friendly UI for elderly patients.
 - **Teach Stack:** Android Studio, Java/Kotlin, Firebase (alerts), Git, Agile/Scrum.
- Real Estate Website (2023)**
- Full-stack platform (Next.js, PocketBase) for listings, geolocation-based search, and live broker–client chat.
 - Implemented JWT auth and advanced filtering for dynamic property management.
 - **Tech Stack:** Next.js, React, PocketBase, Mantine UI, Node.js, REST APIs.
- AgendaMate iOS App (2023)**
- SwiftUI-based personal task manager with journaling, notifications, and weather API integration.
 - Utilized Core Data for secure local storage, plus Face ID/passcode for privacy.
 - **Tech Stack:** SwiftUI, Core Data, Weather API, Xcode, GitHub.

EDUCATION

Bachelor of Engineering - Computer Engineering 2021- 2026 (Expected)
Concordia University Montreal, QC

• **Relevant Coursework:** Artificial Intelligence (Python), Network Security & Management (Python, Wireshark), Communication Networks & Protocols (Python), Digital System Desing (VHDL), Data Structures & Algorithms (Java), Operating Systems (Java, C), Programming Methodology (C++), Real-Time Systems, Software Process & Practices (JavaScript, CSS, Python).

EXPERIENCE

- Inventory Clerk** 2021 - 2022
Distribution Regitan Dorval, QC
- Automated recurring inventory tasks using Python scripts to reduce stock discrepancies by 40%.
 - Managed daily warehouse operations, demonstrating leadership and attention to detail.
- Open House Representative (Volunteer)** 2022 - 2024
Concordia University Montreal, QC
- Led campus tours, coordinated schedules, communicated program details to prospective students.
- Tutor** 2019 - Present
Emmanuel Christian School Dollard-des-Ormeaux
- Guided elementary/high school students in math, science, and programming fundamentals.