

# Malik Abu Shah

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## EDUCATION

**Sami Shamoon (SCE), Be'er Sheva** — Software Engineering

OCT 2022 - March 2027

## PROJECTS

**Embedded Systems Engineer — Beyond The Stop (Final Project)**

- Awarded "Outstanding Project" and selected to compete at the HCII (Human-Computer Interaction International) conference.
- Hospital-oriented academic project with a strong social impact focus, informed by clinical requirements from Soroka Medical Center (Be'er Sheva).
- Developed ESP32 firmware (C/C++) for IMU data acquisition and real-time knee motion analysis, with a dedicated mobile application.
- Designed the system to detect and prevent knee hyperextension for injury prevention and rehabilitation
- Implemented Bluetooth (BLE) communication and end-to-end hardware-software integration
- Collaborated with the Mechanical Engineering department

**Hoona — Software Engineer**

Owner of a production-deployed mobile platform, responsible for backend, data, and infrastructure decisions.

- Built and deployed an end-to-end mobile platform with a custom backend, owning architecture, implementation, and operational decisions
- Developed a .NET REST API integrated with Firebase Authentication, validating JWTs server-side and enforcing role-based authorization for protected endpoints
- Designed and evolved a PostgreSQL schema with query patterns optimized for feed retrieval, filtering, and discovery workloads
- Deployed and operated the system on Linux-based servers.

## SKILLS

**Programming:** C#, C++, Python, Dart (Flutter), Java  
**Frameworks:** .NET API, Flutter, Django, Embedded C++ , ASP .NET  
**Databases:** PostgreSQL, Firebase Firestore  
**Cloud & DevOps:** Cloudflare, VPS deployment, CI/CD basics  
**Systems & Tools:** Linux, Windows, Git

## LANGUAGES

Arabic - Native

English - Fluent

Hebrew - Proficient