# Ahmed Mohammed Khaer Alzoubi

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## Summary

Computer Engineering graduate (Ajman University, 2026) who builds web software, mostly around connected hardware: real-time telemetry dashboards, a live data platform for microcontroller boards, product sites and an offline password manager. I define the requirements and architecture, review and test every change against a checklist, and deploy on Cloudflare and Vercel.

## Skills

**Programming:** C, C++, 8086 Assembly
**Web platforms:** Cloudflare (Pages, D1, Durable Objects), Vercel, bilingual (English/Arabic) sites
**Protocols and APIs:** WebSockets, MQTT, BLE, Web Serial, Google Maps API, Google Calendar API, OAuth sign-in (GitHub, Google)
**Tools:** Claude Code, Git, GitHub, Vercel, Linux (Ubuntu), VS Code, MATLAB, Overleaf (LaTeX), Obsidian
**Hardware side:** ESP32, Arduino, firmware in C/C++

## Experience

**Embedded Systems Intern** Jan 2026 – May 2026
*SpacePoint* *UAE*
*Work is covered by a non-disclosure agreement and is described in general terms.*

- Built a web ground-station dashboard (Node.js, WebSockets, SQLite) that streams live satellite telemetry to the browser, stores it for later analysis, and sends uplink commands over MQTT; delivered across three iterations.
- Merged three separate internal tools (mission portal, telemetry dashboard, onboarding documentation) into one web platform.
- Built an interactive exhibit (React, Node.js, MQTT, ESP32-CAM): visitors scan a QR code, trigger a photo from inside a CubeSat model, and receive it by email within about 30 seconds.
- Wrote the ESP32 firmware that feeds these tools over serial, Wi-Fi and MQTT.

**Computer Engineering Club Leader** Sep 2024 – May 2025
*Ajman University* *Ajman, UAE*

- Ran Arduino and embedded-systems workshops and organised the university-wide Arduino Design Project Competition.

## Projects

**Seelie Dash** dash.seelieelectronics.com
*Cloudflare D1, Durable Objects, WebSockets, Web Serial, Arduino library*

- Web app where students and hobbyists connect Arduino and ESP32 boards over USB, Bluetooth or Wi-Fi and see live graphs with saved history; sign-in with GitHub or Google.
- Built the Arduino library boards use to send their data; runs on Cloudflare's free tier.

**MyVault – Offline Password Manager** github.com/AhmedMKAlzoubi/myvault
*AES-256-GCM, Windows, Android, browser*

- Offline password manager with AES-256-GCM encryption; phone and PC sync by scanning a QR code, backups print as encrypted paper; English and Arabic.

**Seelie Shop and DARA Shop** seelieelectronics.com
*Next.js, React, Cloudflare D1, Vercel*

- Product sites for my hardware: live 3D product viewer and configurator, English and Arabic, sign-ups stored in Cloudflare D1.

**Smart Helmet Companion App (Graduation Project)** github.com/AhmedMKAlzoubi/Graduation-Project-Public
*React + Capacitor, Google Maps API, BLE, ESP32*

- Mobile app that calculates routes with the Google Maps API and sends turn-by-turn steps over BLE to an ESP32 head-up display in a helmet visor.

**Portfolio Website** ahmed-alzoubi.pages.dev
*HTML, CSS, Cloudflare Pages*

- Bilingual (English/Arabic) portfolio with an interactive 3D model of my business card; an earlier version was built in Next.js on Vercel.

## Education

**Bachelor of Science in Computer Engineering** Sep 2021 – May 2026
*Ajman University* *Ajman, UAE*

## Certifications

AI Infrastructure and Operations – NVIDIA | Fundamentals of TinyML – Harvard (edX) | Design of Digital Circuits with VHDL – L&T EduTech (Dec 2024) | Fundamentals of Digital Design for VLSI – L&T EduTech (Feb 2025)

## Additional Information

UAE residence and work visa | Qatar residency permit | UAE driving licence | Degree attested in the UAE, Qatar and Syria
Languages: Arabic (native), English (fluent)
Activities: Robotics and IT Sustainability Hackathon, ADIPEC 2024 (Abu Dhabi)