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)