

Abdullah Ani

Computer engineer

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SUMMARY

Innovative Computer Engineer and technical founder with a strong track record of rapidly rebuilding and improving systems. Seeking a Facility Engineer role to apply expertise in IoT hardware infrastructure, productivity tracking systems, and operational turnaround. Proven ability to handle client relationships from day one, manage complex technical operations, develop and maintain SOPs, and architect localized hardware-software ecosystems for smart facilities.

CORE COMPETENCIES

- **Facility & Operations:** Operational Turnaround, Facility Systems Architecture, SOP Development & Maintenance, Productivity Tracking Systems, Performance Dashboards, Client Relationships & Account Management.
- **Hardware & Facility Tech:** IoT Architecture, Local Smart Home/Building Ecosystems, LoRa (868 MHz) Long-Range Communication, Zigbee Mesh Networks, Microcontrollers (ESP32).
- **Software & Infrastructure:** Python, TypeScript, Node.js, Next.js, PostgreSQL, RESTful APIs, Docker Containerization, CI/CD Pipelines.

EXPERIENCE

Co-Founder & Chief Technology Officer (CTO)

JAM3AH | Kuwait | 2023 – Present

- **Operational Turnaround & System Rebuilding:** Directed the operational turnaround of the company's technical infrastructure, successfully leading 5 major architectural iterations to rebuild and improve systems for optimal market fit and scalability.
- **Productivity Tracking Systems:** Engineered a comprehensive ecosystem of internal operational tools, successfully transitioning the business from manual tracking to automated productivity tracking systems and customized CRMs.
- **Performance Dashboards:** Created and managed performance dashboards for both administrative staff and end-users, providing real-time visibility into business metrics, session bookings, and financial operations.
- **SOPs & Standardization:** Developed and maintained SOPs through the creation of the "Jam3ah Contract Maker," standardizing operational workflows and client onboarding with automated compliance and e-signing.
- **Client Relationships:** Handled real client accounts and client relationships from day one, actively integrating user feedback from Kuwaiti market users to drive product development and operational improvements.
- **Infrastructure Management:** Managed cloud infrastructure (Railway, Supabase) and established robust CI/CD pipelines, containerization, and system security protocols.

TECHNICAL PROJECTS & GITHUB PORTFOLIO

The Jam3ah Ecosystem

As CTO, designed and built a suite of interconnected applications to run the Jam3ah tutoring business.

- **Jam3ah App v5 (Current Core Platform):** Developed a session-booking platform using a Flutter monorepo (student

app + staff console) and a Node/Express TypeScript API. Integrated Supabase for real-time Postgres/Auth, Google Meet for auto-recorded sessions, and Payzah for a digital KWD credit system.

- **Jam3ah Contract Maker:** Built a bilingual (RTL/Arabic) contract management web app using Next.js 15, Prisma/PostgreSQL, and Puppeteer. Features dynamic template generation via Groq AI, unique e-signing links with touch signature pads, and server-side PDF locking.
- **Jam3ah Form & CRM:** Created an Express-based student intake form and mini-CRM featuring Google Meet/Calendar sync, Google Drive backups, and PWA web-push notifications for staff.
- **Jam3ah-Connect:** Built a campus social and gaming app for university students featuring posts, announcements, and AI moderation using Flutter, Express, PostgreSQL, MinIO, and Groq AI.
- **Jam3ah System (Origin):** Developed the foundational educational management system for daily class calendars and finance tracking using React 18, Express, Prisma, and PostgreSQL.
- **Legacy Architectures (v1 to v2.1):** Prototyped earlier scaling attempts, including a highly complex microservices architecture utilizing Turborepo, Fastify, Next.js, Python FastAPI, PostgreSQL, and Kafka, demonstrating the ability to work with enterprise-grade infrastructure.

AI Tools & Utilities

- **CV Tailor (AI CV Generator):** Engineered a private AI-powered resume studio using **Next.js 15, React 19, and Prisma/PostgreSQL**. Integrated Groq's Llama 3.3 70B model to dynamically rewrite CV summaries and bullet points against job descriptions while strictly preserving employment history, exporting to an ATS-friendly PDF.

Hardware & Embedded Systems

- **Sign Bridge (Hand-Gesture Recognition):** Developed an accessibility-focused system mapping hand gestures to actions using a webcam and an ESP32 sensor glove. Trained and deployed machine learning models using Python, Keras, and MediaPipe for real-time inference.
- **Smart Comfort (Local Smart Home):** Designed a privacy-focused IoT architecture eliminating cloud dependency. Integrated LoRa (868 MHz) technology for 10-15 km long-range communication seamlessly with a Zigbee mesh network for in-home device coordination.

Web & Media Applications

- **Joonis Movie Time:** Engineered an all-in-one Electron media center integrating multiple torrent engines and debrid services. Deployed a headless web build on Railway to function as a shareable, remote watch-party server.
- **Maryam Notes:** Designed and deployed a Dockerized single-page static site for educational note distribution.
- **Workouts Landing Page:** Built a self-contained, high-performance static HTML/CSS landing page optimized for fast mobile rendering.

EDUCATION

Bachelor of Science in Computer Engineering

International University of Kuwait (IUK)

GPA: 3.24

Capstone Project: Smart Comfort: A Locally Controlled Smart Home Ecosystem

HONORS & AWARDS

2nd Place: National Entrepreneurship Competition (Sponsored by Volvo, Click IT Future, and Kuwait University)

5th Place: Nexus Startups Competition (Awarded for Jam3ah platform)