Muhammad Danish Aiman Bin Muhammad Nazir

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Summary

Computer Science graduate (Intelligent Computing, USM) with production experience shipping an ASP.NET EHS portal across 7 manufacturing plants and building full-stack web apps used by real customers with Next.js, TypeScript and Supabase. Owns features end to end, from database schema and security to APIs, tests and responsive UIs.

Experience

ClearWisdom (CAAM RDVT Penang) **Nov 2026 – Present**
Protégé – Maintenance Engineer *Penang, Malaysia*

- Provide L1 and L2 technical support at the Civil Aviation Authority of Malaysia (CAAM) RDVT facility, troubleshooting system issues and managing camera systems and updates on Linux.
- Authoring the daily Standard Operating Procedure (SOP) for RDVT System Engineers.

Inari Amertron Berhad **Mar 2025 – Oct 2025**
Software Engineer Intern *Bayan Lepas, Penang*

- Consolidated 3 separate EHS tracking processes (Fire Extinguisher, Competency, Environmental Monitoring) into one production web portal (C#, ASP.NET MVC/Web Forms, SQL Server) used daily by 12 employees.
- Built a fire extinguisher tracking system for 400+ units across 7 plants, replacing paper-and-Excel reporting that took about a week to consolidate with a live dashboard of in-service, under-maintenance and expiring units.
- Developed competency and certificate tracking for 15 employees with automatic Active / Expiring Soon / Expired status, email notifications, Excel export and an activity log for audit trails.
- Implemented role-based access (Administrator, Plant Manager, User) with ASP.NET Identity and Entity Framework; supported IT and DBA teams through deployment, debugging and user acceptance testing (UAT).

Projects

MaiLagi – Digital Loyalty Stamp-Card Platform | *Next.js, TypeScript, Supabase, Zod, Vitest* Oct 2026

- Launched a QR-based loyalty web app now **in production at After Hours Hub** (burger shop), serving **89 customers** across 131 visits and 174 stamps as of Nov 2026.
- Customers scan a counter QR code to request stamps, staff approve them from a live queue (Supabase Realtime), and admins sign in with TOTP two-factor authentication.
- Enforced the stamp and redemption lifecycle in PostgreSQL (39 migrations) with SQL functions, row-level security and pg_cron expiry to block self-approval, duplicate and spam requests; 15 database test suites.

Where's My Water? USM – Campus Water Refill Locator | *Next.js, TypeScript, Supabase, Leaflet* Jun 2026

- Led backend development (45 of 69 commits) with the USM Student Representative Council for a map of 13 campus water dispensers, adopted by 100+ students.
- Built the Supabase schema, RLS policies, admin login and dashboard with image uploads, and geolocation-based nearest-dispenser search, with Vitest and React Testing Library unit tests.

Spudin Game Awards – Community Voting Platform | *Next.js, Supabase, Tailwind CSS, Vercel* Nov 2026

- Solo-built and deployed a fan-voted game awards site with Google and Twitch OAuth sign-in that processed 278 votes with zero ballot-integrity incidents.
- Enforced one vote per category with RLS policies and SQL functions, and built an admin control room for voting windows, live totals, nominee image uploads and a staged results reveal.

ZenPose – Real-Time Yoga Pose Evaluation | *Flutter, Dart, Python, MediaPipe* Aug 2026

- **Bronze Award, PIXEL 2026** (Project Innovation & eXploration in CS Education and Learning) for an on-device pose-comparison pipeline (landmark normalisation, joint-angle scoring) reaching 84% pose-match accuracy across 250+ comparisons of 10 yoga poses, with real-time feedback in Flutter.

Education

Universiti Sains Malaysia (USM) **Oct 2022 – Oct 2026**
Bachelor of Computer Science (Honours) in Intelligent Computing – CGPA 3.48 *Gelugor, Penang*

- **Coursework projects:** gRPC microservices vs HTTP benchmark (Python, Docker); parallel image-processing pipeline on GCP; IoT stray-animal feeder (ESP32, MQTT, Next.js); MiniLang compiler; WebGL 3D engine.

Technical Skills

Languages: TypeScript, JavaScript, Python, C#, Java, SQL, C++, Dart
Frontend: React.js, Next.js, Tailwind CSS, HTML/CSS, Flutter
Backend: Node.js, Express.js, ASP.NET MVC, ASP.NET Web Forms, Entity Framework, FastAPI, gRPC, REST APIs
Databases: PostgreSQL, Microsoft SQL Server, MongoDB, Supabase, Firebase
Cloud & Tools: Linux, Docker, Microsoft Azure, Google Cloud Platform, Vercel, Git, GitHub, Postman, Figma
Testing: Vitest, React Testing Library | **IoT:** ESP32, MQTT | **Spoken Languages:** English, Malay