Muhammad Danish Aiman Bin Muhammad Nazir

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EDUCATION

Universiti Sains Malaysia | Gelugor, Penang | CGPA: 3.48 **October 2022 - October 2026**

Bachelor of Computer Science (Honours) in Intelligent Computing

Relevant Courses: Algorithms & Data Structures, Machine Learning and Deep Learning, Data Analytics Programming, Software Engineering, Database Design, Operating Systems, Parallel & Distributed Computing

Penang Matriculation College| Kepala Batas, Penang | CGPA: 3.92 **March 2021 - March 2022**

Physical Science Matriculation Programme

TECHNICAL SKILLS

Core: JavaScript/TypeScript, Python, C#, C++, SQL, React.js, Next.js, Node.js, REST APIs
Also proficient: Dart/Flutter, ASP.NET MVC, PostgreSQL, MongoDB, Firebase, Supabase
Tools: Git, GitHub, Postman, Vercel, Google Cloud Platform, Figma

EXPERIENCE

Inari Amertron Berhad | Software Engineer Intern | Bayan Lepas, Penang **March 2025 - October 2025**

- Built and shipped 3 ASP.NET MVC modules (C#, MSSQL, JS) for a production EHS portal used daily by 12 employees, reducing manual compliance tracking time by consolidating fragmented spreadsheet workflows into a single system.
- Redesigned and merged 3 siloed tracking systems (Competency, Environmental Monitoring, Fire Extinguisher) into one unified module, cutting duplicate data entry and improving audit-readiness across EHS workflows.
- Collaborated with IT, database administrators, and network teams to resolve deployment constraints, debug system issues, and support user acceptance testing.

PROJECTS

ZenPose: Real-Time Yoga Pose Evaluation | Final Year Project | Bronze Award | Flutter Dart, MediaPipe, Python

- Built a mobile computer vision prototype that analyzes yoga poses using human pose landmarks.
- Engineered a pose-comparison pipeline using landmark normalization and joint-angle scoring, achieving 84% pose-match accuracy across 250+ pose comparisons spanning 10 yoga poses — recognized with a Bronze Award.
- Built real-time feedback and progress-tracking modules that translate joint-angle deviations into corrective guidance, processing live camera input via MediaPipe on-device.

Where's My Water? USM: Campus Water Refill Locator | Collaborative Project | Next.js, TypeScript, Leaflet

- Collaborated with USM Student Representative Council to build a campus-wide water refill locator, mapping 13 water dispensers across USM Main Campus with real-time availability and maintenance status.
- Implemented geolocation and nearest-dispenser detection features, cutting the time for students to locate a working dispenser versus manual searching.
- Contributed interactive map markers and dispenser-status UI, adopted by 100+ USM students.

Spudin Game of The Year Award Voting | Community Project | Next.js, PostgreSQL, Tailwind CSS

- Designed a full-stack voting platform (Next.js, PostgreSQL, RLS) handling 278 votes with zero ballot-integrity incidents, using row-level security and SQL functions to prevent duplicate/fraudulent voting.
- Designed database schema, RLS policies, and SQL functions to protect ballots and optimize vote aggregation.

PixelDeck | Personal Project | Python, JavaScript, HTML/CSS, Android ADB

- Developed a retro-pixel dashboard that transforms an old Android phone into a second screen for Windows PCs, displaying real-time system metrics, weather, calendar events, and music.
- Built a Python-based PC agent with ADB connectivity, enabling live system monitoring, media controls, and remote PC actions over USB.