MUHAMMAD AIMAN BIN JAMALUDDIN

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SUMMARY

Computer Science (Hons.) student at UiTM with prior industry internship experience and hands-on work in web development, machine learning, explainable AI, enterprise programming and self-hosted infrastructure. Seeking a 14-week industrial training placement as a software, data or AI intern from 15 March to 18 June 2027.

EDUCATION

Universiti Teknologi MARA (UiTM), Kampus Kuala Terengganu Mar 2025 – Expected Jun 2027

Bachelor of Computer Science (Hons.)

- CGPA: 3.04 / 4.00
- Relevant courses: Enterprise Programming (A+), Special Topics in Computer Science (A), Software Engineering (A-), Project Formulation (A-), Artificial Intelligence (B+), Data Mining, Algorithm Analysis and Design, Computer Security

Universiti Teknologi MARA (UiTM), Kampus Raub, Pahang Oct 2022 – Feb 2025

Diploma in Computer Science | CGPA: 3.25 / 4.00

- Dean's List Award, Semester 1 (GPA 3.52)

SKILLS

Programming: Python, Java, PHP, SQL, JavaScript

Machine Learning: scikit-learn, Random Forest, SHAP, pandas, NumPy, PyTorch, sentence-transformers (Hugging Face)

Web Development: PHP, CodeIgniter, Bootstrap, MySQL, HTML/CSS, XAMPP, Jakarta EE (Servlets, JSP), Oracle SQL; web-based system development (certified, Level 1 & 2)

Tools & Platforms: Git, Linux, Docker, Jupyter, Microsoft Excel (basic), Power BI (currently learning), local LLMs (Gemma), NotebookLM, VS Code

Design & Hardware: Photoshop, Premiere Pro, Canva, CapCut; PC, laptop and printer troubleshooting

Research Tools: Scopus, Mendeley, academic database search

Languages: Bahasa Melayu (Native), English (Fluent) – MUET Band 4.0 (CEFR B2, 2024)

EXPERIENCE

Eden Hafiz Group PLT – IT Intern (Diploma Industrial Training) Sep 2024 – Feb 2025

Kuantan, Pahang | Computer and IT equipment sales and repair

- Co-developed EdenHR, a web-based HR management system (PHP, CodeIgniter, Bootstrap, MySQL) covering employee records, attendance, leave, payroll and company notices.
- Produced system design documentation (context diagram, DFD, ERD, relational schema) and wrote and executed test cases for 9 system modules.
- Diagnosed and repaired printers, desktops and laptops; formatted machines and installed software for customers across 3 branches.
- Created promotional posters and videos using Photoshop, Premiere Pro, Canva and CapCut; supported Unifi promotion events and in-store laptop sales.

PROJECTS

Explainable Random Forest for KTMB ETS Ridership Surge Prediction 2026

Final Year Project | Supervisor: Dr. Norulhidayah binti Isa | github.com/CaribbeanGreen/KTMB-ETS-Ridership-XAI

- Implemented a Random Forest from scratch in NumPy, forecasting daily KTMB ETS ridership for 21 districts, trained on 2.2 million hourly trip records (2023–2026) joined with public holidays, DOSM demographics and Open-Meteo weather.
- Cut network-level forecast error to 4.1% MAPE on May–Dec 2025 test data, versus 6.4% for a naive baseline (6.7% vs 9.4% on festive days).
- Explained every prediction with TreeSHAP (also written in NumPy), verified exactly against brute-force Shapley values; showed festive weeks and holiday eves raise ridership while Ramadan lowers it.
- Built a web dashboard with a 2026 holdout evaluation and daily ridership forecasts to year-end.

PulseLift – Workout Tracker Web App 2026

Personal project | HTML, CSS, JavaScript (PWA) | github.com/CaribbeanGreen/PulseLift-Workout-Tracker

- Built an installable, offline-capable progressive web app for a 2-day full-body routine with weight and rep logging, workout history and a rest timer.
- Rendered interactive 3D anatomical models in plain JavaScript (no libraries) that rotate 360° and highlight the muscles each exercise targets.

ChateauFido – Dog Hotel Booking System 2026

Group project | Java (Jakarta EE 10), JSP, Servlets, MySQL, GlassFish | github.com/CaribbeanGreen/ChateauFido

- Built a pet-hotel booking web app with customer registration, dog profiles, room booking and receipts, plus an admin dashboard for bookings, reservations, rooms and inventory (44 Java classes, 24 JSP pages).

Pantun Pembayang–Maksud Coherence Analysis 2026

CSC575 group project

- Built a corpus of about 11,000 Malay pantun from published anthologies and scored pembayang–maksud coherence with five multilingual embedding models, rhyme rules and LLM judges (locally hosted Gemma, Gemini).
- Fine-tuned LaBSE with PyTorch (sentence-transformers, contrastive loss), raising AUC for telling real from shuffled pantun from 0.65 to 0.92 on held-out data; off-the-shelf LLM judges scored near chance (0.50–0.53).
- Built a Streamlit demo with separate views for students, lecturers and researchers.

Home Server: NAS and Game Server 2026

Personal project

- Converted a Dell OptiPlex into a self-hosted Linux NAS that replaces Google Drive for my file storage, and also hosts Minecraft and Palworld game servers.

CERTIFICATIONS

Certification Course: Web-Based System Development (Level 2 – Intermediate) Jul 2026

Inteksoft Sdn. Bhd. (with FSKM, UiTM) | Certificate of Completion

Certification Course: Web-Based System Development (Level 1 – Beginner) Jun 2026

Inteksoft Sdn. Bhd. (with FSKM, UiTM) | Certificate of Completion

CO-CURRICULAR ACTIVITIES

- Participated in 80+ university programmes and workshops (2025–2026); 31.75 cumulative e-Merit points.
- Relevant: AI Unlocked: Exploring the Future of AI, UiTM Library (Oct 2026), Smart System Engineering with IoT (Jun 2026), Resume & LinkedIn Workshop (Jun 2026), Webinar with International Industry Expert, FSKM (May 2026), Campus AI Roadshow: NotebookLM Enterprise (Apr 2026), Scopus AI Literature Search (Apr 2026), Navigating AI in the Real World (Oct 2025).

ADDITIONAL INFORMATION

Industrial Training: 15 March 2027 – 18 June 2027 (14 weeks, compulsory for degree completion)

REFERENCES

Available on request.