

Maab Dafaalla

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Summary

Final year Information Technology student at Multimedia University Malaysia with hands-on experience building and deploying full-stack web applications, REST APIs, and cloud infrastructure on AWS. Contributed to production systems handling real-world integrations, debugging, and containerised deployments. Holds an AWS Certified Cloud Practitioner certification and a published research paper in machine learning. Eager to support software development, cloud operations, and API integration in a fast-paced, high-traffic product environment.

Education

Multimedia University Malaysia

Nov. 2023 – Nov. 2026

Bachelor of Information Technology (Hons.) Information Systems | CGPA: 3.55

Cyberjaya, Malaysia

Availability

Start: July 2026 | Duration: 3–6 months | Type: Full-time internship

Projects

Recap — AI Meeting-to-Action Tracker | *Next.js, Node.js, REST APIs, Supabase, Docker, Railway* **2026**

- Built a full-stack web application with a Next.js frontend and server-side API routes (Node.js); integrated the Claude API via REST with structured prompt engineering to extract and classify action items from meeting transcripts.
- Debugged cross-service API integration issues between the web layer, n8n automation workflows, Notion, and email dispatch; containerised with Docker and deployed on Railway with Supabase for persistent state management.

Live Demo: <https://recap-production-9849.up.railway.app/>

LumiTNBC — AI Cancer Classification Platform | *Python, Flask, REST API, XGBoost, Docker, Railway* **2025 – Present**

- Developed and deployed a Flask REST API serving a multi-class ML model (91.51% accuracy); implemented role-based access with separate patient and provider views, resolved deployment issues across Docker and Railway environments.
- Performed end-to-end testing and debugging of API endpoints, model inference pipeline, and database interactions; maintained a live production deployment with ongoing monitoring and issue resolution.

Live Demo: <https://lumitnbc-production.up.railway.app/>

Cloud Infrastructure Automation with Terraform | *Terraform, AWS EC2, VPC, IAM, S3, IaC* **2026**

- Provisioned and configured a production-grade AWS environment (VPC, subnets, Internet Gateway, EC2, IAM) using Terraform IaC; automated instance bootstrapping via user-data scripts with zero manual intervention.
- Enforced least-privilege access through IAM policies, SSH key-pair authentication, and security group rules; designed the setup to support monitoring-ready, reproducible cloud deployments aligned with AWS best practices.

Technical Skills

Cloud & Infrastructure: AWS (EC2, VPC, IAM, S3, CloudFront, ECS/Fargate, ALB), Terraform, Docker, CI/CD, Git

Web & Backend: Next.js, Node.js, Flask, REST APIs, HTML, CSS; familiar with Vue.js

Databases: SQL, PostgreSQL, Supabase; exposure to Redis concepts and object storage (S3)

GenAI & Automation: Claude API, n8n, LLM integration, prompt engineering, API integration

AI / ML: XGBoost, Scikit-learn, SHAP, pandas, Jupyter Notebook

Languages: Python, JavaScript, Bash, SQL, C++, Java

Systems & Networking: VMware, Ubuntu, Rocky Linux, TCP/IP, DNS, SSH, firewall

Certifications

AWS Certified Cloud Practitioner

2026

Amazon Web Services

Publications

Maab Dafaalla et al.

2026

- “Triple Negative Breast Cancer Subtyping and Prognostic Modeling Using Machine Learning and Deep Learning: A Systematic Review” — Presented at CITIC 2026 (DIFCON 2026 Congress), to be published in AIP Conference Proceedings.

Extracurricular

TechGirls MMU

Aug 2025 – Present

Design Committee Member

Multimedia University Malaysia

- Contributed to a student-led initiative promoting women in technology; produced visual communications and event branding to support outreach and community engagement goals.