

Maab Dafaalla

Cyberjaya, Selangor, Malaysia

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Summary

Final year Information Systems student at Multimedia University Malaysia with hands-on experience in cloud architecture, AI/ML development, and enterprise IT infrastructure. Developed a production ready explainable AI system for cancer subtype classification achieving 91.51% accuracy, designed to deliver actionable clinical insights and measurable value to healthcare stakeholders. First-authored a systematic review accepted at an international conference (CITIC 2026). Pursuing AWS Cloud Practitioner certification with working knowledge of cloud native design principles, data analytics, and Python based machine learning. Seeking a consulting internship in digital, cloud, and data to contribute to real client projects and deliver value across industries.

Education

Multimedia University Malaysia

Nov. 2023 – Nov. 2026

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

Cyberjaya, Malaysia

Relevant Coursework

- Operating Systems
- Database Management
- Network Architecture
- Systems Analysis
- Project Management
- Data Structures
- Software Engineering
- Web Development

Projects

LumiTNBC | Python, XGBoost, SHAP, Flask, AWS, Docker

2025 – Present

- Developed an explainable AI system for Triple-Negative Breast Cancer molecular subtype classification to support clinical decision-making, architected for deployment on AWS (EC2, S3, Lambda) with containerized microservices using Docker.
- Achieved 91.51% classification accuracy using XGBoost with 150 genomic features selected via Bayesian optimization, with SHAP explainability integrated to generate patient-facing risk assessments, enabling clinicians to act on transparent, data-driven insights.
- Designed a scalable cloud data pipeline to ingest and process multi-source genomic datasets (TCGA-BRCA, METABRIC, I-SPY), following cloud-native principles for modularity, fault tolerance, and horizontal scalability to meet real-world healthcare data demands.
- Built a full-stack web application with an AI chatbot, clinical trial matching engine, and explainability dashboards. Delivering an end-to-end digital solution that improves patient access to personalized cancer care information.

Enterprise VLAN Network Design & Configuration | Cisco Packet Tracer, OSPF, VLAN, DHCP, DNS

2024

- Designed and implemented a multi-router enterprise network topology using VLANs on Cisco multilayer switches, connecting 6 routers with inter-VLAN routing and OSPF dynamic routing to simulate real client infrastructure requirements.
- Deployed critical network services including DHCP, DNS, HTTP, FTP, and email servers, and applied STP to eliminate network loops — replicating a fully functional enterprise IT environment supporting business continuity.
- Hardened the infrastructure with SSH-based switch authentication and centralized syslog logging to a remote server, enabling proactive monitoring and reducing operational risk for the simulated organization.

Linux Server Administration & Hardening | Rocky Linux, Apache, NFS, SSH, firewalld, SELinux

2026

- Provisioned and configured a Rocky Linux 10 server on VMware, managing user and group access for 50 users across 5 departments with role-based access control, simulating IT administration for a mid-sized organization.
- Implemented layered security hardening including SELinux enforcing mode, SSH key-based authentication, firewalld rich rules, and port blocking — reducing the attack surface and strengthening the organization's security posture.
- Deployed Apache HTTP Server to host a company website and internal employee portal, translating business requirements into a functional, permission-controlled web environment accessible to the right stakeholders.
- Set up NFS file sharing across 6 departmental directories with ACL policies for cross-department access and real-time monitoring using htop, iotop, and journalctl — enabling data governance and operational visibility across the organization.

Technical Skills

Languages: Python, C++, Java, SQL

Web Development Tools: HTML, CSS, JavaScript

AI/ML: XGBoost, Scikit-learn, SHAP, Pandas, NumPy

Cloud & DevOps: AWS (EC2, S3, RDS, Lambda, CloudFront, CloudWatch, IAM), Linux

Developer Tools: Git, GitHub, VS Code, Jupyter Notebook

Analytical Tools: Power BI, Excel, Data Visualization, Technical Report Writing

Certifications

AWS Certified Cloud Practitioner

Amazon Web Services

In Progress

Expected April 2026

Publications

Maab Dafaalla et al.

2026

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

Leadership / Extracurricular

TechGirls MMU

Design Committee Member

Aug 2025 – Present

Multimedia University Malaysia

- Collaborated with a cross-functional student team to plan and execute branding initiatives for a women-in-technology organization, coordinating with multiple stakeholders to deliver visual content and event materials on time.
- Actively sought feedback from team leads to refine deliverables, demonstrating commitment to producing quality work that aligned with the organization’s goals.

Zoo Negara Volunteering Event

Event Organizer

Sept 2024

Multimedia University Malaysia

- Led end-to-end coordination of a student volunteering trip for a group of participants, managing logistics, communicating across teams, and adapting plans on-site — building skills in stakeholder management and structured problem-solving.