

Abbas Usman Adamu

Final-year Software Engineering Student | Aspiring AI Engineer & Researcher

Portfolio: usyy-portfolio.tech | GitHub: github.com/Fagacie

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PROFESSIONAL SUMMARY

Final-year Software Engineering student preparing for graduate research and industry roles as an AI Engineer. Experienced in building robust full-stack applications and backend architecture utilizing Java, Python, Docker, and relational databases. Dedicated to advancing intelligent systems, data analytics, and IoT integration. Demonstrates a strong foundation in machine learning and artificial intelligence, combining software development expertise with analytical research capabilities to engineer scalable, data-driven solutions.

EDUCATION

Bachelor of Computer Science (Software Engineering) with Honours 2023 – Present
Universiti Malaysia Terengganu
Expected Graduation: March 2027

Dean's List: Semester I (2024/2025), Semester II (2024/2025), Semester I (2025/2026)

Relevant Coursework: Artificial Intelligence & Machine Learning, Data Structures & Algorithms, Software Engineering, System Analysis & Design, Database Systems, Software Architecture, Web Application Development, Object-Oriented Programming.

Senior Secondary School Certificate (WAEC) 2015 – 2021
First Grade Comprehensive School, Kano, Nigeria

TECHNICAL SKILLS

Programming Languages: Java, Python, JavaScript, MicroPython
Artificial Intelligence: Prompt Engineering, Generative AI, Machine Learning Fundamentals, LLM Applications, Jupyter Notebook
Software Development: Spring Boot, JSP, Servlets, REST APIs, HTML5, CSS3, Bootstrap
Databases: MySQL, MongoDB, Firebase
Cloud & DevOps: Docker, Git, GitHub, Firebase Hosting
IoT: MQTT, ThingSpeak, Raspberry Pi Pico W
Testing: JUnit, Selenium

RESEARCH INTERESTS

- Artificial Intelligence
- Machine Learning
- Intelligent Systems
- Software Engineering
- Data Analytics
- Internet of Things

PROFESSIONAL EXPERIENCE

Software Engineering Intern August 2026 – Present
Eco Hydrotech Solutions Sdn. Bhd. | Institute of Oceanography and Environment (INOS), Universiti Malaysia Terengganu

- Support ongoing software engineering activities by collaborating with senior engineers on environmental technology initiatives.
- Assist in backend application development and database implementation to ensure efficient processing of environmental data.
- Participate in software design, testing, and troubleshooting for intelligent nature-based solutions.
- Support IoT-related software systems by applying hardware and software integration skills for ecological monitoring.

PROJECTS

PSM E-Learning System

Live: psmels.software/landing **GitHub:** github.com/Fagacie/psm-elms

Technologies: Java (JSP/Servlets), MySQL, JavaScript, Bootstrap, Paystack, Docker

- Addressed fragmented administrative workflows by designing a unified Learning Management System.
- Developed a full-stack Java application integrated with Paystack REST APIs for secure online transactions.
- Containerized the production environment with Docker, ensuring consistent deployment and scalability.

Smart Campus IoT Environmental Monitoring System

Live: campus-iot.me

Technologies: MicroPython, MQTT, Raspberry Pi Pico W, ThingSpeak

- Solved the lack of live localized ecological data by developing a continuous environmental observation platform.
- Programmed Raspberry Pi Pico W edge devices to ingest telemetry via secure MQTT communication channels.
- Delivered real-time data visualization through live cloud dashboards, facilitating immediate environmental analysis.

PKU Management System

GitHub: github.com/Fagacie/pkumanagementsystem

Technologies: Java, MySQL, JSP/Servlets

- Replaced manual hospital record-keeping with a centralized management platform to track patients and appointments.
- Engineered robust relational database schemas and enforced strict role-based access control (RBAC).
- Improved administrative efficiency and protected confidential healthcare data against unauthorized access.

WeatherHub

Live: weather-hub-9c3f8.web.app

Technologies: JavaScript, REST APIs, Firebase Hosting

- Addressed the need for rapid meteorological updates by dynamically extracting live data streams from third-party REST APIs.
- Programmed the data retrieval logic and deployed the optimized front-end onto Firebase Hosting.
- Provided a fast, secure HTTPS-encrypted public utility for immediate environmental awareness.

MasakJerr

GitHub: github.com/Fagacie/masakjerr-project1

Technologies: Java, Spring Boot, MySQL

- Overcame unorganized digital recipe collections by architecting a scalable backend repository.
- Constructed RESTful CRUD services with Spring Boot and normalized relational MySQL database schemas.
- Ensured high data integrity and efficient retrieval times for user profiles and recipe management.

Elite Soccer Feed

Live: elitesoccerfeed.vercel.app **GitHub:** github.com/Fagacie/ESFhomepage

Technologies: HTML5, CSS3, JavaScript

- Addressed cluttered sports news presentation by designing a highly readable, responsive front-end interface.
- Utilized modern CSS methodologies and JavaScript DOM manipulation to enhance navigation flow.
- Elevated user experience metrics across diverse mobile and desktop device form factors.

AWARDS & ACHIEVEMENTS

Consolation Prize, PAMERKOM 2026 Final Year Project Competition, 2026	[Certificate]
Held in conjunction with the Cisco Country Digital Acceleration Programme (CDA-UMT)	
Certificate of Participation, PAMERKOM 2026 Final Year Project Exhibition, 2026	[Certificate]
Dean’s Award Faculty of Computer Science and Mathematics, Semester I (2024/2025)	[Certificate]
Dean’s Award Faculty of Computer Science and Mathematics, Semester II (2024/2025)	[Certificate]
Dean’s Award Faculty of Computer Science and Mathematics, Semester I (2025/2026)	

CERTIFICATIONS

International Autumn School 2025 (Economic Evaluation of Health Informatics Systems), 2025	[Certificate]
Samarkand State Univ. & Univ. of Georgia (USA)	
ASPIRE 2025 (Alumni Synergy for Professionalism, Impact & Readiness Enhancement), 2025	[Certificate]
Certificate of Appreciation, ASPIRE 2025 Resume Contest Faculty of Computer Science and Mathematics, 2025	
iFuture @ Universiti Malaysia Terengganu (Certificate of Participation), June 2025	[Certificate]
Water Survival Programme (Role: Group Leader), 2025	
VCLEP Programme , 2023	

LEADERSHIP EXPERIENCE

Media and Publicity Officer, Nigerian Muslim Community in Malaysia (NMCIM)	May 2026 – Present
• Manage official social media platforms and website content to maintain a strong public organizational presence. • Produce engaging digital publicity materials and coordinate digital communication strategies. • Promote community programmes and provide technical support for executive communication initiatives.	
Treasurer, Nigerian Muslim Community in Malaysia (NMCIM)	2025 – April 2026
• Managed organizational budgets and tracked operational expenditures to ensure fiscal responsibility. • Coordinated financial planning for community events and provided transparent reporting to the executive committee.	

REFERENCES

Prof. Ts. Dr. Muhammad Suzuri Hitam Dean, FSKM, UMT suzuri@umt.edu.my	Assoc. Prof. Ts. Dr. Wan Nural Jawahir Wan Yussof Head of Software Engineering Program, UMT wannurwy@umt.edu.my
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