ALNIJAM BIN MOHD ASARI
Melaka, Malaysia | nijammohd12@gmail.com | (+60) 11 - 17481187 | Linkedin | GitHub

PROFESSIONAL SUMMARY

Motivated Software Engineering student with hands-on experience in automating business operations and maintaining legacy systems. Quick learner capable of utilizing modern development tools.

EDUCATION

University of Malaya (UM) **Kuala Lumpur, Malaysia**
- Bachelor of Computer Science (Software Engineering). CGPA: 3.40 October 2022 - February 2026 (Expected)
- Foundation of Physical Science. CGPA: 3.88 August 2021 - May 2022

CAREER & EXPERIENCE

WORQ - Workspace Provider **Kuala Lumpur, Malaysia**
Information Technology Intern July 2024 - January 2025
- Acted as the technical liaison between the IT department and internal business teams to streamline requirements.
- Engineered automation scripts using Google Apps Script to fetch, clean, and display data, reducing manual time.
- Developed and deployed an internal Enterprise Resource Planning (ERP) tool to optimize resource management.

SKILLS & PROJECTS

Language: Java, C, C++, Python, JavaScript, TypeScript, PHP
Web Framework: MERN, MEAN, Socket.io, Spring Boot, OSGi, Web2py
Developer Tools: Docker, Postman, Git, GitHub, Google App Script, Google Cloud
IDEs, Editor & Tools: Visual Studio Code, Google Colab, Android Studio, Virtual Box, Figma
Additional Skills: Webhook, Automation, WebSocket, Android Development

AI Lesson Planner - Academic Project | Google Gemini, MERN, Socket.io March 2025 - January 2026
- Built and deployed a ***MERN*** stack Web Application to automate the process of lesson planning for teachers.
- Integrated Google Gemini LLM Model for the ***Retrieval-Augmented Generation (RAG)*** for the lesson generation.
- Integrated WebSocket connection using ***Socket.io*** for real-time alert.

Skynet - Component-Based Software Development | Docker October 2025 - January 2026
- Modernized a legacy flight system by integrating the Spring framework and OSGi to enable modular componentization.

Eden - Software Maintenance | Python, Docker, HTML, SCSS, JavaScript October 2025 - January 2026
- Led and maintained a legacy system, Eden by Sahana that was built on top of ***Web2py*** framework.

SpeakMath - Programming Language Paradigm | Python, Replit October 2025 - January 2026
- Developed a math-focused natural language parser that verifies expressions before evaluation, featuring a Google Gemini fallback mechanism for complex queries.

SmartGrow - Software Process Quality | Arduino, C++, Microcontroller March 2025 - June 2025
- Designed and developed a modular IoT system for automating the care of home-grown plants specifically the watering system

Diabetes Prediction Model - Machine Learning | Python, Google Colab, Pandas, Numpy, Replit March 2024 - June 2024
- Developed a multi-class classification model to diagnose patients as Non-Diabetic, Pre-Diabetic, or Diabetic based on clinical metrics and performed data preprocessing using Pandas and NumPy to handle missing values, normalize features, and remove outliers for improved model accuracy.
- Benchmarked performance across multiple algorithms (KNN, Random Forest Classifier, Logistic Regression), achieving the highest accuracy of 98% with the Random Forest model.