

Mubarak Ahmad Saleh Elmughrabi

Aspiring Full Stack Developer — Software Engineer — AI Engineer

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Summary

Highly motivated Computer Science student (expected graduation **May 2026**) specializing in **Software Engineering, Fullstack Development, and Artificial Intelligence**, with 1.5+ years of hands-on project experience in **designing, developing, and deploying end-to-end web applications, system architectures, and scalable software solutions**. Strong foundation in computer science principles, data structures, algorithms, databases, and software design patterns. Proven ability to build reliable, maintainable, and user-centric applications across the full development lifecycle:

- **Front-end development using modern JavaScript frameworks (React.js, Vue.js), HTML, CSS, and responsive UI/UX design**
- **Model development**
- **Back-end engineering with Node.js, Express, Python (Flask/Django), and C#/ASP.NET Core, integrating RESTful APIs and microservices**
- **Database design and management** with MySQL, PostgreSQL, MongoDB, and data modeling for scalable applications
- **DevOps and deployment** using Git, GitHub, Docker, CI/CD pipelines, cloud platforms (AWS, GCP), and container orchestration
- **Testing and debugging**, including unit testing, integration testing, code reviews, and performance profiling

Passionate about delivering **efficient, clean, and scalable** code that solves real-world problems. Demonstrated success in Full-Stack Development projects including E-commerce platforms, **AI-powered web apps**, secure **authentication systems**, and **dynamic dashboards**. Seeking an entry-level **Software Engineer or Full-Stack Developer** role to contribute technical expertise and build impactful, user-friendly solutions in innovative environments such as **FinTech, HealthTech, or SaaS**.

Education

BSc in Computer Science (Specialization in Software Engineering)

March 2023 – Present

Multimedia University, Malaysia

Expected Graduation: May 2026

CGPA: 3.78 / 4.0

Achievements: 4-time Dean's List Award Winner

Relevant Coursework: Data Structures and Algorithms, Object-Oriented Programming, Object-Oriented Analysis & Design, Software Engineering Principles, Web Development, Full-Stack Application Development, Database Management Systems, Operating Systems, Computer Networks, Software Testing & Quality Assurance, Human-Computer Interaction, Cloud Computing, Systems Design, API Development.

Selected Projects

Hostel Management System

Technologies: Python, Django, MySQL

- Developed a desktop application for managing hostel operations, including room allocation, resident tracking, and payment history.
- Implemented role-based access, full CRUD functionality, and database integration for persistent storage..

Talent Connect Portal

Technologies: PHP, MySQL, HTML, XAMPP

- Full-stack web portal created for students to showcase portfolios and connect with peers, faculty, and potential employers.
- Features include user registration, profile creation, portfolio uploads, a searchable talent directory, admin announcements, and secure feedback forms.
- Implemented role-based access, secure authentication, and a clean UI with interactive form validation.

- Built as a capstone project for the Web Application Development course, hosted locally on XAMPP.

C++ Route Visualization Tool

Technologies: C++, STL, Graph Theory, Dijkstra's Algorithm, A*, BFS, DFS, SFML, Graphviz

- Built a desktop application to visualize and calculate optimal paths using various algorithms like Dijkstra, A*, BFS, and DFS.
- Designed a user-friendly interface using SFML for rendering graphs and step-by-step pathfinding visualization. Designed a simulated

Drawing and Image Manipulation App

Technologies: Java, Swing, BufferedImage, AWT

- Created a desktop app that allows users to draw, edit, and apply effects to images using pixel manipulation and graphic filters.
- Supported features like layering, cropping, color inversion, and brush tools with undo/redo support.

Vending Machine Simulator (NFA vs DFA)

Technologies: Javascript, python, html, CSS, NiceGUI

- Simulated a vending machine's behavior using Non-deterministic and Deterministic Finite Automata (NFA/DFA) to demonstrate logical differences.
- Designed an interactive GUI to select items and display state transitions based on machine type..

Student Finance and Billing System

Technologies: Java, MySQL, OOAD

- Developed a system to calculate student expenses and automatically generate billing reports based on purchases and usage.

Grab-Style Food Delivery App

Technologies: Laravel, Vue.js, Inertia, PHP, MySQL, html, css

- Designed a food ordering and delivery application mimicking Grab's e-commerce flow.
- Features include real-time menu browsing, cart management, order tracking, and Firebase-based backend for authentication and database storage.

Certifications

Laravel Full-Stack Course – Udemy

Python Programming for Data Science - Udemy

Java Programming – Udemy

Skills

- **Programming Languages:** Python (Expert), C++ (Intermediate), Java (Intermediate), Kotlin (Intermediate), TypeScript (Intermediate), JavaScript (Intermediate), SQL (Proficient: PostgreSQL, MySQL, SQLite)
- **Frontend Development:** React, HTML5, CSS3, Tailwind CSS, JavaScript, TypeScript, Responsive Design, UI/UX Principles
- **Backend Development:** Flask, FastAPI, Node.js (Basic), Java (Spring Basics), RESTful API Design, Authentication (JWT, OAuth), MVC Architecture
- **Mobile Development:** Flutter, Dart, Android (Jetpack Compose, Kotlin)
- **Database Systems:** PostgreSQL, MySQL, SQLite, MongoDB (NoSQL), Firebase Realtime DB, Data Modeling, ORM (SQLAlchemy, Hibernate Basics)
- **Statistical & Mathematical Foundations:** Statistical Modeling, Hypothesis Testing, A/B Testing, Experimental Design, Linear Algebra, Calculus, Probability & Statistics, Optimization
- **Tools & Methodologies:** Agile, Object-Oriented Programming (OOP), Data Pipelines, Problem Solving, End-to-End Project Development

Soft Skills: Analytical Problem-Solving, Critical Thinking, Data-driven Decision Making, Technical Communication, Team Collaboration, Project Leadership, Adaptability, Continuous Learner.

Languages

English: Fluent

Arabic: Native