

MUHAMMAD HAZIQ HALIFI BIN AB RAHMAN

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SUMMARY

Software Engineering graduate and current AI Robotics trainee under NSEP at ASEM, with experience in AI-enabled applications, backend systems, workflow automation, and full-stack development. Skilled in React, FastAPI, Node.js, PostgreSQL, Supabase, REST APIs, OpenAI API, and Gemini API, with project experience in AI chatbots, personalised learning systems, geospatial intelligence, and dashboards. Previously worked as a Backend Engineer Intern at Grab and Tech Lead for SukaSkool, delivering production-ready systems and scalable web platforms. Interested in applying AI, automation, robotics, and intelligent systems to solve real business problems.

EDUCATION

AI Robotics, National Semiconductor Excellence Program (NSEP) June 2026 - Now
Advanced Semiconductor Academy Malaysia (ASEM)

- Hands-on training in robotics hardware integration, motion control, inverse kinematics, IoT connectivity, smart factory dashboards, system troubleshooting, and Industry 4.0 automation through robotics projects and capstone deployment.

Bachelor of Computer Science (Software Engineering) October 2022 - February 2026
Universiti Malaya CGPA: 3.72

- Achieved Dean's List for 2 consecutive semesters
- Relevant Coursework: Software Engineering, Web Programming, Database Systems, Data Structures & Algorithms, Artificial Intelligence, Machine Learning, Human-Computer Interaction, Real-Time Systems.

EXPERIENCES

SukaSkool Edu Tech August 2025 - April 2026
Tech Lead

- Designed, developed and launched a full-stack web-based education marketplace from scratch, supporting 300+ users across core marketplace workflows including class discovery, bookings, and payments.
- Led end-to-end implementation and maintenance of frontend and backend modules, user onboarding, content management and platform operations, enabling continuous feature delivery across multiple release cycles.
- Built mobile-responsive front-end UIs using React and Tailwind CSS, ensuring consistent user experience across desktop and mobile devices.
- Collaborated with startup program mentors and validation stakeholders to refine product requirements and translate feedback into testable, implementable software features.
- Contributed to development, enhancement and testing of RESTful APIs, database schemas, and third-party integrations (payments, email, AI).
- Technologies used: TypeScript, React, Node.js, PostgreSQL, Supabase, Tailwind CSS, Vite, HTML, CSS, Netlify, Render, GitHub**

Grab August 2024 - January 2025
Backend Engineer Intern

- Built and debugged Go-based microservices using the company's internal framework, including adding databases, endpoints, data-access layers, and profiling services for workflow automation.
- Worked extensively with Jira REST APIs, including migrating an existing endpoint to Jira Cloud, testing endpoints with Postman and documenting the integration between internal services and Jira.
- Resolved issues in an internal operations backend such as broken email report links and reporting metrics, validating fixes by running services locally and comparing results against Jira data.
- Contributed to an internal web dashboard by designing and implementing dashboard and workflow UIs with a component library, testing and deploying changes to staging and production environments.
- Technologies used: Golang, internal Go microservice framework, REST APIs, Jira, MySQL, Postman, React, TypeScript, UI component library (Ant Design-style), HTML, CSS, GitLab.**

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PROJECTS

DisasterWatch - AI Disaster Query Web Application

- Designed and developed a full-stack disaster query platform with interactive maps, chatbot workflows, and localized insights for end users.
- Implemented modules for authentication, incident reporting, notifications, subscriptions, FAQ, and admin dashboard using modular frontend and backend architecture.
- Integrated AI and geospatial capabilities to support location-aware disaster information retrieval and response workflows.
- Technologies used: React, Python, FastAPI, OpenAI API, ArcGIS, Microsoft SQL Server, HTML, CSS, JavaScript.**

JomSkorSPM- AI-SPM Prep Platform

- Built an AI-powered SPM preparation platform that helps students identify weak topics and receive personalised learning recommendations.
- Developed features including question analysis from images, bilingual explanations (Bahasa Melayu & English), topic performance tracking, and gamified leaderboards.
- Designed and implemented a responsive web application serving Form 4 and Form 5 students based on the Malaysian KSSM syllabus.
- Integrated AI-assisted learning workflows to provide instant explanations, answer guidance, and targeted revision suggestions.
- Technologies used: React, OpenAI API, Gemini API, PostgreSQL, HTML, CSS, TypeScript, Retrieval Augmented Reality(RAG), GitHub, Vercel**

PROFESSIONAL DEVELOPMENT

SeKodLah TechHive Programme

April 2026- May 2026

Forest Interactive Foundation

- Completed a 26-day technology bootcamp covering data analytics, UI/UX design, cybersecurity, cloud computing, infrastructure security, artificial intelligence, and career readiness.
- Gained hands-on exposure to SQL, Python data preprocessing, data visualization, dashboard design, Looker Studio, Figma prototyping, Cloudflare security, WAF rules, virtual machines, disaster recovery, IAM, system hardening, LLMs, RAG, agentic AI, and AI governance.
- Applied technical and problem-solving skills through capstone project work, industry visits, career sessions, and a 3-day hackathon.

AWARDS & ACHIEVEMENTS

- Best UI UX in Techive Hackathon 2026
- Top 17 Student Startup to be accepted in Demo Day for LaunchX 2025/2026
- Top 10 in in Redesign City of Shah Alam using AR on iPad Challenge 2025
- Best Volunteer Award in FSKTM Gala Night 2024

CERTIFICATIONS

- Make Agentic AI Work for You (IBM)**
Issued June 2026
- AWS Certified Cloud Practitioner (Amazon Web Services)**
Issued December 2025
- GitHub Foundations (Microsoft)**
Issued October 2025
- Certified Enterprise Data Practitioner (CADS AI)**
Issued July 2023