

Adam Zailani

Software Engineer

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SUMMARY

A young tech enthusiast on a mission to make an impact wherever I go. With a knack for problem-solving and a passion for innovation, I bring a fresh perspective and a hunger for learning to every project I tackle. From coding complex algorithms to diving into the latest advancements in AI, I thrive on challenges and love turning ideas into reality.

PROFESSIONAL EXPERIENCE

Freelance Developer

Bangi, Malaysia | 06/2025 - Present

- **Leveraged Agentic coding frameworks** to streamline the software development life cycle (SDLC), utilizing autonomous agents for debugging, documentation, and initial prototyping.
- **Evaluated and integrated emerging AI architectures**, including RAG (Retrieval-Augmented Generation) and Agentic reasoning loops, to build smarter, more intuitive applications for diverse clients.
- **Conducted continuous technical research** into Transformer models and fine-tuning techniques to ensure client projects utilized the most cost-effective and performant models available.
- **Engineered and maintained Linux-based server environments** using Docker for service isolation and custom Bash automation to streamline the deployment of AI-integrated application

Associate AI Researcher

MIMOS Berhad

Kuala Lumpur, Malaysia | 09/2024 - 02/2025

- **Engineered high-impact Computer Vision Proof of Concepts (PoCs)**, transitioning cutting-edge research into functional prototypes for industrial applications.
- **Developed robotic software systems** within the **ROS framework**, utilizing a polyglot approach (C# and Python) to bridge hardware-software communication.
- **Architected a proprietary image generation pipeline** by fine-tuning foundational models, optimizing the model for specific in-house use cases and data requirements.
- **Spearheaded on-premise LLM deployments** using **DeepSeek R1**, ensuring 100% data sovereignty and security by hosting inference on internal hardware.
- **Managed technical partnerships** with external engineering firms to ruggedize lab prototypes, facilitating the transition from fragile concepts to field-deployable units.
- **Closed the feedback loop** between stakeholders and engineering teams, using field data to iteratively refine POCs for mass-scale adoption.

IT Applications Intern

Edwards Lifesciences APAC

Kuala Lumpur, Malaysia | 09/2023 - 02/2024

- **JDE & Android Integration:** Developed and maintained global EnterpriseOne (JDE) systems and mobile applications, ensuring seamless data flow across the enterprise.
- **Legacy Migration:** Successfully migrated unsupported MAF applications to Native Android, leveraging **MVP architecture** and **REST APIs** for modern performance standards.
- **Global Support:** Resolved complex, real-world JDE tickets, deploying technical fixes and features to a worldwide production environment.
- **QA & Project Management:** Managed development tasks via Jira and executed comprehensive quality audits through TestRails to maintain enterprise-level standards.



EDUCATION

Bachelor of Computer Science (Hons.)

Universiti Teknologi Mara, Jinan

10/2020 - 06/2023

3.78 CGPA

Vice Chancellor Award Receiver

SKILLS

Tools:

- Java • C++ • Python • OpenCode
- LM Studio • LATE • openClaw
- Docker • ComfyUI •

AI Specialization

- LLM Deployment • Prompt Engineering • Agentic Coding • RAG • ROS (Robot Operating System)

Operating Systems:

- Linux • Windows • MacOS

Interests

- Geopolitics & Macroeconomics
- Emerging AI Architectures
- Self-Hosted Infrastructure
- Modding/Reverse Engineering
- Badminton
- Pickle Ball
- Gym