MUHAMAD FAKHRUL NAJMI BIN ABD AZIZ

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PROFESSIONAL SUMMARY

Software Engineer with hands-on experience in full-stack development, API integration, and workflow automation across web and enterprise systems. Skilled in building scalable, secure, and high-performing applications that streamline complex business processes and enhance operational efficiency. Delivers solutions that reduce manual workloads, improve data flow, and enable faster decision-making. Passionate about leveraging AI, ML, and cloud technologies to drive digital transformation and help organizations stay ahead in a rapidly evolving landscape.

EDUCATION

Universiti Kebangsaan Malaysia (UKM)   **Oct 2021 – Feb 2025**
BSc Information Technology with Honors (3.83/4.00)
Relevant Coursework: Programming, Cloud Computing, Database Management, OOP, IT Security & Network, AI & Machine Learning

WORK EXPERIENCE

Software Engineer, Total Dynamic Technology Holding *(Contract)*   **March 2025 - Present**
- Developed a cloud-based accounting system and managed infrastructure, enhancing scalability and uptime by 20% for 50+ clients, by designing a robust REST API using PHP, Python and PostgreSQL.
- Integrated Grok-4 API for PDF and image extraction, accelerating bookkeeping record processing by 40% and reducing manual workload by 15 hours weekly, by implementing secure file handling and automated metadata workflows to streamline data extraction for multiple companies.
- Increased AI response quality by 40% and reduced false outputs by applying prompt engineering and fine-tune techniques, optimizing prompts, and selecting the most suitable AI model for each use case.
- Reduced new company user onboarding time by 70% through automated database creation, enabling faster client go-live, minimizing human error, and lowering support overhead costs.
- Cut external software costs by RM20,000 annually by supporting DevOps engineers in building an automated, high-availability NGINX load balancer on internal servers, eliminating the need for a paid application load balancer.

Backend Developer, InNeouro Solutions *(Freelance)*   **July 2025 – Sep 2025**
- Designed and implemented scalable backend architecture for a machine learning chatbot using Node.js, Express.js, and MongoDB, ensuring maintainability and modularity.
- Integrated Microsoft Authentication Library (MSAL) to enable secure, seamless user login and access to Microsoft services.
- Containerized the application using Docker, cutting deployment time and ensuring consistent environment setup across development and production.
- Implemented RESTful APIs for chatbot system, supporting smooth communication between the frontend and backend layers.
- Utilized Git and GitHub for collaborative version control, maintaining clean commit history and efficient workflow management.

PROJECT

CI/CD Pipeline AWS Project - View Project   **Jun 2025 – July 2025**
Implemented a CI/CD pipeline on AWS using Elastic Beanstalk, RDS, CodeBuild, and CodePipeline for Java application, with source code migrating from GitHub to Bitbucket for centralized version control. Automated build and deployment processes with Maven, configured secure EC2–RDS connectivity, and integrated database initialization steps. Enabled seamless code updates on each commit.

Infrastructure as Code (IaC) with Terraform on AWS - View Project   **May 2025 – Jun 2025**
Deployed and managed an AWS EC2 instance using Terraform, automating infrastructure provisioning with reusable configuration files. Configured security groups, key pairs, and Ubuntu AMI integration to enable secure SSH and HTTP access. Streamlined cloud resource management with Terraform workflows for initialization, validation, deployment, and cleanup.

CERTIFICATIONS
- DevOps Beginner to Advance – Visual Path, Udemy - View Certificate
- SQL - MySQL for Data Analytics and Business Intelligence - View Certificate
- Red Hat Linux System Administration – RedHat - View Certificate

KEY SKILLS AND LANGUAGES

Programming Languages: PHP (Advanced), JavaScript (Advanced), Java (Intermediate), Python (Intermediate), HTML & CSS

Framework/Library: Laravel (Intermediate), Spring Boot (Intermediate), NodeJS (Intermediate), ReactJS (Intermediate)

Databases: MySQL (Advanced), MSSQL (Intermediate), PostgreSQL (Advanced), MongoDB NoSQL (Intermediate)

Cloud Service: AWS (Intermediate), Azure (Intermediate), GCP (Intermediate)

Languages: English (Proficient), Malay (Native Speaker)

REFERENCE
References available upon request