



Muhammad Ikhmal Haziq bin Amar

Software Developer

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About Me

Experienced Fullstack Developer & Technical Lead with a strong background in web and mobile development, DevOps, and geospatial systems. Passionate about delivering scalable and efficient solutions, with expertise in backend, frontend, cloud infrastructure, and automation. Adept at mentoring developers, leading projects, and optimizing system performance. Holds a Certified Kubernetes Administrator (CKA) certification, showcasing strong expertise in containerization and cloud orchestration.

EXPERIENCE

Plisca (M) Sdn Bhd

Technical Lead

- Led the development team, conducted code reviews, and established best practices.
- Designed and implemented CI/CD pipelines, streamlining deployment processes.
- Deployed and managed applications using Docker & Kubernetes.
- Conducted technical training sessions on GeoNode, GeoServer, Docker, Django, and FastAPI.
- Architected infrastructure and database designs (ERD) for critical projects.
- **Proactive Team Development:** Self-initiated and deployed knowledge sharing infrastructure (custom portal + Colanode) to enhance team collaboration and knowledge retention

2024 - 2025

Ukay Perdana

Software Developer

Developed web applications using frontend and backend technologies. Built server-side applications and APIs with Node.JS, Python and PHP. Implemented responsive and user- friendly interfaces. Company focuses on Geospatial Portal.

2023 - 2024

Ukay Perdana

Managed product displays and ensured optimal stock levels in retail outlets. Improved inventory management and successfully increased product sales through strategic product positioning and customer engagement.

EDUCATION

Diploma in Cyber Forensics

2018 - 2020

Cybernetics International College of Technologies

TECHNICAL SKILLS

Frontend

Vue, React, Angular, Next.js



Backend

Django, Laravel, NextJS, FastAPI



Mobile

React Native, Flutter, Ionic



Databases

MySQL, PostgreSQL



DevOps

Docker, Kubernetes, CI/CD, Linux Server Management, Self-Hosting



Others

RESTful API, Version Control (GitHub, GitLab), AI-Assisted Development (v0.dev, claude)

LANGUAGE

English - (basic) • Malay

PROJECTS

WISS

2024 - 2025

Technologies: Laravel, Inertia.js, Vue.js, Filament, React Native, MySQL, GitLab CI/CD, Ansible

- Led a cross-functional team of 5 developers (3 web developers, 2 mobile developers) in delivering enterprise-level solution
- Architected full-stack web application using Laravel with Inertia.js and Vue.js for seamless SPA experience
- Implemented comprehensive admin panel using Filament for efficient content and user management
- Supervised mobile application development using React Native for cross-platform compatibility
- Performed hands-on fullstack development while maintaining technical leadership responsibilities
- Established code review processes and mentored team members on best practices and coding standards
- Designed and implemented CI/CD pipelines in GitLab for automated testing and deployment workflows
- Successfully deployed production environment using Ansible automation scripts for consistent and reliable deployments

- Coordinated between web and mobile teams to ensure API consistency and optimal user experience across platforms

KPM

2024 - 2025

Technologies: AWS, Kubernetes, Draw.io, Modular Monolith Architecture

- Provided technical consultancy for Malaysia's Ministry of Education digital transformation initiative
- Designed comprehensive infrastructure architecture incorporating both public and private cloud solutions
- Conducted in-depth AWS architecture analysis and recommended optimal cloud services configuration
- Architected Kubernetes deployment strategies for scalable container orchestration
- Designed modular monolith architecture as a strategic migration path from monolithic to microservices
- Advised on architectural best practices, recommending modular monolith approach before transitioning to microservices
- Created detailed technical documentation and architectural diagrams for infrastructure planning
- Provided strategic guidance on cloud adoption and system scalability considerations

JPS Portal

2023 - 2024

Technologies: Statamic CMS, Laravel, PHP, Markdown, YAML, HTML/CSS, JavaScript

- Single-handedly developed three regional water management portals for Malaysia's Department of Irrigation and Drainage
- Built comprehensive portals for Kuala Lumpur (wpkl.water.gov.my), Putrajaya, and Labuan regions
- Utilized Statamic flat-file CMS for optimal performance and easy content management without database complexity
- Created customizable template system allowing for region-specific design variations while maintaining consistent core layout
- Implemented responsive design ensuring optimal user experience across all devices and platforms
- Developed content management workflows using Markdown and YAML for easy content updates by non-technical staff
- Built custom functionality for water management data presentation and public information dissemination
- Successfully deployed and maintained three live production portals serving government agencies and public users
- Configured Disaster Recovery Center (DRC) infrastructure to ensure business continuity and data protection
- Managed entire project lifecycle from requirements gathering to deployment, DRC setup, and ongoing maintenance

MyIFOS

2023 - 2023

Technologies: Django, Angular, PostgreSQL, Python, TypeScript

- Developed integrated workflow management platform for JUPEM (Department of Survey and Mapping Malaysia)
- Contributed to Django backend development, building APIs and data models for forest operations management
- Implemented Angular frontend components for user interface and workflow automation

- Worked on development tasks beyond typical junior responsibilities, contributing to core application features
- Built functionality to streamline JUPEM's operational workflows and data management processes
- Collaborated with team members to integrate frontend and backend systems effectively
- Gained experience with full-stack development using Django-Angular architecture
- Short-term engagement focused on delivering specific development milestones for government workflow optimization

MyGeohub

2023 - 2024

Technologies: GeoNode, GeoServer, Django, OpenLayers, PostgreSQL, Docker, Python

- Developed centralized geospatial data hub for Malaysian government agencies as a junior developer
- Built upon open-source GeoNode platform, customizing and extending functionality to meet client requirements
- Integrated GeoServer for advanced spatial data management and Web Map Services (WMS/WFS)
- Implemented interactive mapping interfaces using OpenLayers for sophisticated geospatial data visualization
- Performed comprehensive Django backend development, handling data models, views, and API endpoints
- Took on development tasks beyond typical junior role responsibilities, contributing to core application features
- Established data validation mechanisms and quality control processes for geospatial datasets
- **Conducted 4-day comprehensive training session** for client team upon project completion:
 - Trained users on GeoNode platform usage and administration
 - Provided hands-on instruction on GeoServer configuration and spatial data management
 - Delivered Docker containerization training for deployment and maintenance
 - Conducted Django framework training covering backend development principles and best practices
- Successfully transitioned project knowledge to client team ensuring sustainable project maintenance

STAPS

2023 - 2023

Technologies: Django, Django Admin, Ionic Framework, Xcode

- Contributed to spatial planning and analysis system as my first project in the company
- Developed and customized Django admin interface for backend data management and administrative functions
- Gained foundational experience in Django framework and spatial data handling
- **Mobile App Store Deployment (1 year later):**
 - Called back to provide bug fixes for mobile application built with Ionic framework
 - Utilized macOS environment and Xcode for iOS app bundling and deployment processes

CERTIFICATIONS

- CKA (Certified Kubernetes Administrator)
- CCSD (Certificate in DevOps Foundation)

Interests

Technical Interest

- Linux system administration and optimization (Arch Linux)
- Continuous learning through tech communities (daily.dev [🔗](#))
- Productivity optimization and workflow automation
- Open-source technology exploration

Personal Projects

Team Knowledge Hub & Colanode Deployment

2025 - 2025

Technologies: Colanode, Docker, Linux Server Administration, Markdown, Self-hosting

- **Self-initiated team performance improvement project** - Identified knowledge sharing gaps and implemented comprehensive solution
- **Phase 1:** Developed custom knowledge sharing portal with gamification features using Level-Up package for developer engagement
- **Phase 2:** Migrated to self-hosted Colanode deployment for enhanced collaboration and Notion-like functionality
- **Infrastructure Management:** Configured and maintained Linux servers for reliable self-hosting environment
- **Team Leadership:** Motivated team adoption and usage, resulting in improved knowledge sharing and collaboration
- **Open Source Implementation:** Leveraged open-source Colanode as cost-effective alternative to proprietary tools

Acoustic Treats Business Website

2025 - 2025

Technologies: v0.dev AI, Vercel, Modern Web Development

- Developed professional business website for family acoustics company using cutting-edge AI-assisted development
- Utilized v0.dev [🔗](#) for rapid prototyping and modern web design implementation
- Deployed on Vercel platform ensuring optimal performance and reliability
- Demonstrated adaptability with emerging AI development tools and modern deployment practices