

Dzulfikri Bin Pysal

Senior Full Stack Engineer | Flutter · Next.js · Go · Node.js · AI Systems

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github.com/Dzulfikrii | linkedin.com/in/dzulfikri-pysal | Open to relocation to Singapore

Professional Summary

Senior Full Stack Engineer with 7+ years of experience architecting and delivering cross-platform mobile, web, and backend systems across agri-tech, enterprise, and compliance industries. Comfortable operating as a sole contributor or within cross-functional teams — independently leading full project lifecycles from requirements gathering through to production deployment. Deep expertise in Flutter, Next.js, Node.js, and Golang, with hands-on experience building AI-integrated agentic services using Python FastAPI, including prompt engineering, persistent memory, and live database integration. Proven ability to deliver in-premises enterprise systems, internal operations platforms, and production AI automation agents. Experienced in containerised workloads on AWS and Docker.

Experience

Amphibia Digital Sdn. Bhd. | Petaling Jaya, Selangor *Sep 2025 – Present*

Tech Lead

- Sole developer across 6+ concurrent client projects, independently owning architecture, full-stack development, and production deployment end-to-end.
- Architected a Flutter + Node.js field-to-management mobile platform for a palm oil enterprise client, deployed across 8 estate companies in 4 countries — enabling real-time operational data flow between field workers and management, replacing a previously manual and disconnected process.
- Designed a Next.js admin dashboard backed by a high-performance Golang microservice for real-time monitoring and centralised management of palm oil operations at multi-country enterprise scale.
- Built and deployed an AI-powered WhatsApp sales agent using Python FastAPI and OpenAI API — engineered with prompt engineering, persistent memory, and live database access via Convex — fully replacing a manual call-based booking process and enabling 24/7 reservation handling with zero human intervention.
- Delivered a full-featured golf booking web application (Next.js) for AGSSG and 5+ affiliated golf clubs, supporting tee time reservations, member management, and automated booking workflows.
- Developed two internal compliance web platforms (Next.js) for audit and tax firms, replacing Excel-based workflows for 30+ users managing multi-client tax and audit records — with document management, client reporting, and regulatory compliance features.

YM Global Technologies Sdn. Bhd. | Petaling Jaya *Jun 2023 – Aug 2025*

Full Stack Developer

- Led end-to-end development of 3+ cross-platform Flutter mobile applications for enterprise clients in logistics, field operations, and secure authentication — all deployed as in-premises systems.
- Engineered scalable Node.js RESTful APIs powering real-time mobile-to-cloud communication across production applications.
- Built a custom Flutter plugin using Kotlin and Java to integrate external fingerprint scanning hardware, enabling biometric authentication for a secure enterprise mobile app — a novel integration with no prior off-the-shelf solution.
- Built a Flask + MSSQL internal data visualisation dashboard, converting raw operational data into interactive management charts and KPI graphs for internal stakeholders.
- Conducted multi-platform testing and debugging to ensure performance, security, and stability across iOS and Android environments.

Avarice Teq Sdn. Bhd. | Cyberjaya Feb 2020 – May 2023

Flutter Developer

- Led Flutter application development for the e-commerce sector, improving user retention through optimised UI/UX and responsive state management.
- Built reusable component libraries and modular code architecture, reducing feature delivery time by approximately 25%.
- Integrated RESTful APIs for real-time product, order, and user data across e-commerce workflows; maintained 100% on-time delivery across all sprint cycles.
- Maintained and upgraded legacy codebases to remain compatible with the latest Flutter SDK versions and target OS updates.

Salesminded | Kuala Lumpur Sep 2019 – Feb 2020

Django Web Developer

- Built dynamic web applications using Django with a focus on data integrity and performance; designed data models with Django ORM and built responsive front-end interfaces with HTML, CSS, and JavaScript.

Selected Projects

AI WhatsApp Sales & Booking Agent — Python FastAPI · OpenAI API · Convex · Next.js · Webhooks ↗

<https://github.com/Dzulfikriii/golf-booking-ai-sales-agent>

Replaced a fully manual, call-based golf course booking process with a production agentic AI system on WhatsApp. Built with prompt engineering for role-specific behaviour, persistent conversation memory, and live Convex database access for real-time availability. Handles natural language reservations and confirmations 24/7 with zero human intervention.

Palm Oil Field-to-Management Platform — Flutter · Node.js · Golang · PostgreSQL · Docker · Next.js ↗

<https://github.com/Dzulfikriii/palm-oil-field-to-management-platform>

Full-stack in-premises solution deployed across 8 estate companies in 4 countries. Flutter mobile app for field data collection; Golang-powered real-time management dashboard for centralised operations monitoring across all estates.

Golf Booking Web Application (AGSSG) — Next.js · Node.js · PostgreSQL ↗

<https://github.com/Dzulfikriii/golf-booking-web-application>

Internal booking platform for a network of 5+ golf clubs — tee time scheduling, member management, and automated booking workflow automation for club staff.

Audit Compliance Web Platform — Next.js · Node.js · PostgreSQL ↗ <https://github.com/Dzulfikriii/audit-webapps>

Internal web platform for an independent audit firm, replacing Excel-based workflows for 30+ users. Tailored for multi-client audit record management, document handling, and compliance reporting.

Tax Management Web Platform — Next.js · Node.js · PostgreSQL ↗ <https://github.com/Dzulfikriii/tax-webapps>

Internal web platform for a tax firm, digitising multi-client tax record management and client reporting workflows previously handled via spreadsheets.

Biometric Authentication Flutter Plugin — Flutter · Kotlin · Java ↗

<https://github.com/Dzulfikriii/biometric-authentication-flutter-plugin>

Custom native Flutter plugin integrating external fingerprint scanning hardware for enterprise-grade biometric authentication, enabling secure access to in-premises mobile applications.

Technical Skills

Languages: Dart, Go, JavaScript, TypeScript, Python, Java, Kotlin, Swift

Frameworks: Flutter, Next.js, Node.js, FastAPI, Django, Flask, Expo

Databases: PostgreSQL, MySQL, MSSQL, MongoDB, Firebase, Supabase, Convex

Tools & Platforms: Docker, AWS, Git, Prisma, Jenkins, Codemagic, n8n, Sentry, Postman, Netlify, Vercel

Testing: Golden Test, Mockito

Education

Universiti Malaysia Sabah *Sep 2013 – Sep 2017*

Bachelor of Science in Software Engineering

Languages

Bahasa Melayu (Native) **English** (Professional)