

Muhammad Syafiy bin Abdul Rahman

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Summary

Mobile Engineer with a proven track record delivering enterprise-grade applications across React Native and Flutter. Demonstrated expertise in modernizing legacy systems, architecting scalable mobile solutions, and implementing secure, offline-first and real-time features. Experienced building and maintaining production applications for the oil and gas sector. Passionate about blockchain technology with hands-on experience in Web3 and smart contract development, complementing a strong foundation in enterprise mobile engineering.

Education

International Islamic University Malaysia, Gombak Oct 2021 – Sept 2025

Bachelor in Computer Science, Major in Software Engineering

- CGPA: 3.64
- Awards: Innovatex “Best FYP Award” & “Most Promising Project” (WildWatch, 2024)
- Relevant Courses: Mobile App Development, Human Computer Interaction, Database Systems

Experience

AEM Energy Solutions Sdn Bhd, Mobile Engineer – Kuala Lumpur Sep 2025 – Present

Unified HSE Suite

- Architected a unified enterprise mobile platform serving multiple O&G tenants – ePTW (ConocoPhillips), UAUC (Carigali-PTTEPI), UCUX (ENEOS Xplora), and POINT (PETRONAS).
- Spearheaded “lift and shift” migration of legacy systems to React Native and Expo for scalable delivery.
- Implemented offline-first data handling, migrating from Realm to SQLite via Drizzle ORM.
- Owned CI/CD pipeline configuration and release management using EAS for Android and iOS.
- Partnered with backend engineers and product stakeholders to define API contracts and end-to-end system workflows.

AEM+

- Led end-to-end migration from a web-based Angular system to a cross-platform mobile app using Flutter and Riverpod.
- Engineered real-time desk availability via SignalR WebSockets to eliminate booking conflicts.
- Developed GPS-based check-in validation with dynamic location and time-window constraints.
- Integrated Microsoft Authentication (MSAL) with secure token handling for seamless SSO.
- Owned the full app distribution lifecycle, encompassing code signing, provisioning, and App Store/Play Store compliance.

Technologies: React Native, Expo, Flutter, Dart, SQLite, Drizzle ORM, Azure AD (MSAL), SignalR, REST APIs, EAS Build, Android SDK, iOS SDK

AEM Energy Solutions Sdn Bhd, System Developer Intern – Kuala Lumpur Mar 2025 – Aug 2025

Quality+

- Designed role-based inspection workflows with multi-tier approval logic and offline-first persistence using Hive.
- Integrated Azure AD SSO (MSAL) and built submission tracking with real-time sync status and audit indicators.
- Reduced RFI image upload latency by ~60% through targeted compression and encoding optimizations.

GamesMY Esports, NFT Project Lead – Gombak, Selangor Dec 2022 – Apr 2023

- Integrated NFT membership on BNB Smart Chain, expanding digital engagement channels.
- Organized and marketed blockchain events in partnership with industry collaborators.
- Delivered educational sessions on NFTs and Web3 to university audiences.

Projects

AI Fiqh Hackathon – Agent Deen & BarakahVault

Top 5 / 21 Teams

Bank Rakyat Malaysia x AI Fiqh Hackathon

- Developed Agent Deen, an AI-powered Shariah compliance chatbot on a full RAG pipeline with retrieval, reranking, and grounded LLM responses.
- Built BarakahVault, an Islamic investment platform with Maqasid Shariah scoring, zakat calculator, and blockchain-based crowdfunding transparency via Solidity smart contracts.
- Achieved Top 5 placement out of 21 teams.

Technologies: FastAPI, Streamlit, Pinecone, Supabase, LLMs (OpenAI / Claude / Ollama), CrossEncoder, PyMuPDF, Next.js, Node.js, MongoDB, Solidity, Hardhat, Web3.js

WildWatch

Final Year Project

- Architected a Flutter-based endangered animal detection app with real-time image recognition using Google Teachable Machine models.
- Collaborated with Zoo Negara to integrate verified wildlife datasets, improving model accuracy.
- Recognised as Best Project and Most Promising Project at Innovatex 2024 among 50+ teams.

Skills

Languages & Frameworks: React Native, Flutter, Dart, JavaScript, TypeScript, Angular, Next.js, Node.js, Python, FastAPI, Solidity, SQL

Tools & Technologies: Expo, Riverpod, Drizzle ORM, Android Studio, Xcode, Azure DevOps, Swagger, Postman, Git, REST APIs, Hardhat, Web3.js, Streamlit

AI & Data: RAG Pipelines, LLM Integration (OpenAI, Claude, Ollama), Pinecone, CrossEncoder Reranking, PyMuPDF, MongoDB, Supabase

Cloud & Architecture: AWS (EC2, S3, RDS, IAM, VPC, CloudWatch), System Design, Scalable Architecture, Basic DevOps Concepts

Certifications

- INSEAD – Introduction to Blockchain Technologies
- Terato Tech – Mobile Game Development
- freeCodeCamp – Responsive Web Design
- Google Play Academy – Store Listing Certificate
- AWS Certified Solutions Architect – Associate (*In Progress*)

Achievements and Involvement

- Innovatex 2024 – Best Project & Most Promising Project (WildWatch)
- AI Fiqh Hackathon 2026 – Top 5 / 21 Teams (Agent Deen & BarakahVault)
- Pendekar Siber 2023 – Silver Award (Cybersecurity Outreach)
- Program Manager, Kasih Chenglek – Led 47 volunteers delivering aid to 80+ Orang Asli beneficiaries (Apr 2023)

References

Yussof Hussin

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