



# Fikal Alif Al Amin

Fullstack and Mobile Developer

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## SUMMARY

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Dynamic Full-Stack and Mobile Developer with high dedication to building high-impact applications, ranging from AI-driven backend systems to interactive and visually appealing mobile apps. Proficient in modern technologies such as Next.js, Jetpack Compose, and Express.js, with a strong implementation of Clean Architecture and efficient coding practices (clean code). Possesses robust experience in the end-to-end software development life cycle, technical problem-solving, and technical leadership through mentoring. Ready to proactively contribute to a dynamic software engineering team.

## SKILLS

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### Tools & Stack:

- Frontend & Web 3D: Next.js, React.js, Astro.js, Three.js
- Mobile Development: Jetpack Compose (Android)
- Backend & APIs: Express.js, FastAPI, Flask
- Database & Cloud: PostgreSQL, Supabase, MySQL, Neon

## PROJECTS

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### Frontend Developer | **blauw.kof Coffee Shop** | 2026 - Present | React.js, Tanstack query

#### Project Repository

Built a web-based back-office platform interface for an inventory management system and modular Bill of Materials (BOM) to resolve raw material recording inefficiencies in the F&B business line.

- Implemented TanStack Query for data fetching optimization, caching management, and server state synchronization, resulting in fast and responsive application performance without lag during busy operational hours.
- Built a web-based back-office platform interface for inventory management and modular Bill of Materials (BOM) systems to improve operational efficiency.
- Designed an interactive and intuitive UI/UX for the Master Product & BOM module, enabling users to manage recipes with multi-unit conversions (multi-UOM) and dynamically updated Cost of Goods Sold (COGS/HPP) calculations.
- Developed a Reconciliation (Manual Sync) feature interface allowing users to upload hundreds of daily sales records in batches, complete with a Manual Mapping UI to detect and resolve product naming typos from external data sources.
- Managed complex client-side state management while simulating stock deduction calculations (preview mode) before executing absolute updates to the database.

### GeoValid | 2026 | Next.js, Fast API, DeepLabV3+ (Computer Vision), Express.js, Supabase

#### Project Repository

Built a web platform, backend system, and AI model for earthquake disaster mitigation using crowdsourcing and Artificial Intelligence to detect active faults and provide real-time hazard information.

- Designed a semi-microservices architecture separating the frontend (Next.js) and AI detection system (FastAPI/DeepLabV3+) to ensure stability and high performance under heavy workloads.
- Integrated Backend as a Service (BaaS) using Supabase for secure user authentication and centralized database management.
- Developed an Interactive Map feature capable of processing and rendering spatial GeoJSON data to accurately visualize active fault lines.
- Implemented interactive AI Chatbot and Image Detection features.
- Automated web Quality Assurance (QA) processes using Selenium Testing to ensure the stability of the application's core functionalities.

### **VibeCheck | 2026** | Jetpack Compose, Koin, Retrofit, Wi-Fi Direct, TCP Socket, ML Kit |

#### [Project Repository](#)

Developed a peer-to-peer (P2P) photography assistant application that connects two Android devices through a local network without internet access for real-time video streaming and automatic camera control, where one phone acts as the camera and the other as a remote preview device.

- Designed a responsive interface using Jetpack Compose (MVVM Pattern) and Clean Architecture.
- Developed two-way communication using Wi-Fi Direct and TCP Raw Sockets for low-latency video frame streaming.
- Implemented Google ML Kit Pose Detection for gesture recognition as a zero-touch automatic camera shutter trigger.
- Integrated Firebase for additional features such as user authentication and other services.

### **Frontend Developer | Tempat Peraduan Group | 2025** | Astro.js, Three.js

#### [Project Repository](#)

Developed a company profile website based on designs created by the Tempat Peraduan Group manager using Astro.js, while implementing 3D objects rendered with Three.js.

- Designed and developed a high-performance company profile website using modern architecture (Astro, React, and Tailwind CSS), significantly optimizing page loading speed and SEO.
- Created an immersive and interactive user experience (UI/UX) by integrating 3D model rendering using Three.js.
- Conducted in-depth user research and usability testing, translating user feedback into data-driven design decisions that improved overall visitor engagement.

### **Urpocketdigicam | 2025** | Laravel, Vite, MySQL

#### [Project Repository](#)

Developed a comprehensive web platform for cataloging vintage digital camera collections, powered by a robust relational database architecture (MySQL) and seamless API integration using Laravel.

- Designed a robust relational database architecture (MySQL) and developed RESTful APIs to support smooth internal data communication.
- Implemented dynamic search features and advanced filtering systems based on camera brands, specifications, and battery types to improve catalog navigation.
- Developed a secure authentication system and an integrated admin dashboard (Content Management System) to simplify camera inventory management and updates.

## EDUCATION

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### Universitas Harkat Negeri – Bachelor of Applied Science in Informatics Engineering ( 6th Semester )

Focused on Fullstack Development, Mobile Development, and AI Engineering.

## Organizational Experience

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2023 – Sekarang

### PLUGIN Open Source Community

Vice President & Mentor Jetpack Compose

- Served as a primary instructor and mentor for Kotlin (Jetpack Compose) and Express.js materials, guiding community members in application development from concept to implementation.
- Designed and continuously updated structured, easy-to-understand, and industry-relevant mobile and backend development learning curricula.
- Actively initiated and facilitated sharing sessions, technical discussions, and real-world project collaborations to enhance members' technical skills.