



Fikal Alif Al Amin

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Highly driven Full-Stack and Mobile Developer combining academic excellence (GPA: 3.88/4.00) with robust hands-on experience in architecting scalable, high-impact applications. Proficient across modern technology stacks including Next.js, Astro.js, Jetpack Compose, and FastAPI, underpinned by a strong commitment to Clean Architecture and clean code principles. Demonstrated expertise in delivering diverse and complex technical solutions, ranging from immersive 3D web interfaces and sophisticated enterprise inventory (BOM) systems, to AI-driven disaster mitigation platforms and low-latency P2P mobile applications. Beyond software execution, I possess strong technical leadership and communication skills, actively serving as Vice Chairman and Technical Mentor at the PLUGIN Open Source Community to guide peers in modern development practices. Adept at translating intricate business requirements into seamless, user-centric products, I am fully prepared to drive continuous innovation within a dynamic software engineering team.

WORK EXPERIENCE & PROJECTS

Freelance Frontend Developer | Blauw.kof

Apr 2026 – Now

- Built the user interface for a web-based back-office platform focused on intelligent inventory management and modular Bill of Materials (BOM) systems to resolve raw material tracking inefficiencies in F&B operations.
- Designed an interactive UI/UX for the Master Product & BOM module, allowing users to configure recipes with multi-UOM (Unit of Measure) conversions and view dynamically updated Cost of Goods Sold (COGS) calculations.
- Developed the interface for the Reconciliation (Manual Sync) feature, enabling users to batch-upload hundreds of rows of daily sales data, equipped with a Manual Mapping UI to detect and resolve product naming typos from external data.
- Managed complex client-side state management to execute stock deduction simulation calculations (previews) prior to absolute database execution.
- Implemented TanStack Query for data fetching optimization, caching management, and server state synchronization, ensuring the application remains fast and responsive without lag, even when processing massive inventory datasets.

Freelance Frontend Developer | Tempat Peraduan Group

Mar 2025 – Aug 2025

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

Fullstack & AI Developer | GeoValid | Capstone Project 5th Semester

Oct 2025 – Feb 2025

- Developed a crowdsourcing and Artificial Intelligence-based earthquake disaster mitigation platform to detect active faults and provide real-time hazard information.
- Designed a semi-microservices architecture separating the frontend (Next.js) and the AI detection system (FastAPI/DeepLabV3+) to ensure application stability and performance under high workloads.
- Built an Interactive Maps feature capable of processing and rendering spatial data in GeoJSON format to precisely visualize active fault lines.
- Integrated a Backend as a Service (BaaS) ecosystem using Supabase for secure user authentication and centralized database management.
- Implemented an interactive AI Chatbot and Image Detection features.
- Automated web Quality Assurance (QA) processes utilizing Selenium Testing to guarantee the stability of the application's core functionalities.

- Built a Peer-to-Peer (P2P) photography assistant application connecting two Android devices over a local network without the internet for real-time video streaming and automated remote camera control
- Designed a scalable and responsive interface using Jetpack Compose with the implementation of Clean Architecture and the MVVM Pattern
- Developed a low-latency two-way communication system using Wi-Fi Direct and TCP Raw Sockets to facilitate video frame transmission between devices
- Integrated Google ML Kit Pose Detection to enable gesture recognition as a zero-touch automated camera shutter trigger

Fullstack Developer | Urpocketdigicam Web**Mei 2025 – Jun 2025**

- Built a comprehensive web platform based on the Laravel and Vite ecosystem to facilitate the management and cataloging of vintage digital camera collections
- Designed a robust relational database architecture (MySQL) and developed efficient RESTful APIs to bridge the platform's internal data communication
- Implemented a dynamic search feature and an advanced filtering system based on camera brands, specifications, and battery types to enhance catalog navigation.
- Developed a secure authentication system and an integrated admin dashboard (Content Management System) to streamline camera inventory data updates

EDUCATION

**Universitas Harkat Negeri – D4 Informatics Engineering
(6th Semester)****Sep 2023 – Now**

- GPA: 3.88 / 4.00
- Focus on Full-Stack Development, Mobile Development, and AI Engineering.

SMK Karya Guna Bhakti 1 Kota Bekasi – Multimedia**Jun 2018 – Jun 2021**

- Final Average Score: 83,71/ 100.00

ORGANIZATION EXPERIENCE

**Vice Chairman & Technical Mentor | PLUGIN Open Source Community
(Study Club)****Nov 2023 – Present**

- Demonstrated a strong growth trajectory: started as a Kotlin class participant, excelled in the final project, and earned a promotion to an internal member.
- Appointed as Vice Chairman due to consistent high performance, proactive leadership, and continuous technical skill development.
- Entrusted as the primary mentor for the Kotlin (Jetpack Compose) class, and subsequently promoted to lead and mentor the Express.js backend class in the following semester.
- Structured and updated mobile and backend development learning curricula to ensure they are well-organized, comprehensive, and aligned with current industry standards.
- Actively initiated and facilitated sharing sessions, technical discussions, and collaborative real-world projects to enhance the team's technical proficiencies.

SKILL & TECHNOLOGIES

Soft Skill :

- Time Management
- Team Communication
- Critical Thinking

- Public Speaking
- Design Thinking
- Problem Solving

Hard Skill :

- Frontend & Web 3D: Next.js, React.js, Astro.js, Three.js
- Mobile Development: Kotlin, Jetpack Compose (Android Native)
- Backend & APIs: Express.js, FastAPI, Flask, Laravel, REST API
- Database & Cloud: PostgreSQL, Supabase, MySQL, Neon, Firebase
- AI & Machine Learning: Tensorflow, Pytorch, HuggingFace
- DevOps & Tools: Docker, Git, GitHub

Certification :

- Dicoding Academy – Introduction to Programming with Python, Kotlin, and Dart
- Dicoding Academy – Basic Artificial Intelligence (AI) & Data Science
- Dicoding Academy – Basic Data Visualization
- Dicoding Academy – Basic Structured Query Language (SQL)