

MULKI HAFIZH

FULLSTACK WEB & MOBILE DEVELOPER

+62 857-7048-9064 | mkihfhz123@gmail.com | <https://mulkihafizh.com>
[linkedin.com/in/mulkihafizh](https://www.linkedin.com/in/mulkihafizh) | github.com/mulkihafizh | Bogor, Indonesia

Fullstack Developer with advanced expertise in modern frontend ecosystems, specifically React.js and Vue.js (Nuxt, Pinia). Currently engineering high-performance React applications at Toyota (TMMIN), focusing on building scalable, standalone digital solutions for manufacturing. Experienced in delivering end-to-end solutions, from complex canvas tools to national-scale event platforms and high-traffic Node.js architectures.

EDUCATION

SMK Wikrama Bogor

2021 - 2024

Software and Game Development

PROFESSIONAL EXPERIENCE

Fullstack Developer (React & Fastify) | Toyota Motor Manufacturing Indonesia

Oct 2025 - Present

- Accelerated dashboard load times for 200+ internal manufacturing users, as measured by a ~40% reduction in database latency, by implementing a Redis caching layer for high-frequency Prisma ORM queries on SQL Server.
- Increased deployment velocity by 3x for internal digitalization tools, as measured by reduced release cycle time, by architecting CI/CD pipelines on Linux servers and building dedicated Fastify RESTful APIs with TypeScript.
- Improved real-time data visibility across manufacturing floors, as measured by the adoption of live dashboards by 5+ departments, by engineering React.js frontends with Zustand and React Query integrated with WebSocket services.
- Reduced manual data-entry workload by 60% for operational teams, as measured by workflow completion time, by automating business processes with Microsoft Power Automate connected to custom Node.js backends.

Fullstack Developer (Contract) | PAPDI (Indonesian Society of Internal Medicine)

Mar 2025 - Sep 2025

- Enabled seamless digital assessments for 500+ medical professionals, as measured by 100% platform uptime during the PIN PAPDI 2025 national conference, by building and supporting the technical infrastructure end-to-end.
- Delivered a zero-downtime real-time quiz platform, as measured by stable performance under 500+ concurrent users, by developing the frontend with Vue.js and optimizing WebSocket event handling.
- Ensured uninterrupted certification exams during the 3-day conference in Makassar, as measured by zero reported system failures, by providing on-site system monitoring and rapid incident response.

Fullstack Engineer (Sole Developer) | Gerobakan.id

Sep 2024 - Feb 2025

- Launched a B2C fresh produce supply chain platform serving end consumers, as measured by successful go-to-market delivery, by leading full-stack development with Flutter (Android) and Vue.js (CMS).
- Reduced order processing errors by 30%, as measured by decreased error tickets from operations, by building a custom Content Management System with streamlined inventory tracking workflows.
- Enabled real-time stock visibility for warehouse operators, as measured by data refresh latency under 2 seconds, by designing a Strapi and MySQL backend optimized for live inventory data flow.

Flutter Developer | PT LinkIt360

Jul 2024 - Jan 2025

- Delivered pixel-perfect, responsive mobile interfaces for Fintech (PPOB) and Telemedicine apps, as measured by design-to-implementation fidelity approval from UI/UX leads, by translating high-fidelity Figma prototypes into production Flutter code.
- Enabled real-time patient-doctor communication, as measured by successful integration of video conferencing and in-app messaging, by implementing the GetStream SDK across multiple app modules.

- Architected a scalable backend infrastructure for a Smart Farming platform using Express.js and MongoDB, integrating RabbitMQ as a message broker to efficiently handle asynchronous processes and sensor data.
- Engineered a responsive web dashboard using React.js, optimizing cross-device UI/UX to ensure seamless agricultural data monitoring for end-users.
- Delivered a cross-platform companion mobile application using Flutter, enabling users to remotely track and manage farming operations directly from their devices.

PROJECTS

Photobook App (idceritaku.com) | Nuxt.js, Konva.js, Express.js, MongoDB, MySQL

Interactive browser-based design tool for customizing photobooks.

- Developed a rich canvas editor using Konva.js, enabling users to freely drag-and-drop, resize, and layer images for custom photobook designs.
- Architected a hybrid backend: used Express.js (MySQL) for secure user authentication, while leveraging Nuxt server routes to directly interface with MongoDB for storing complex, unstructured canvas JSON data.
- Translated high-fidelity Figma prototypes into a responsive, type-safe UI using Nuxt 3 and Pinia state management.

Michiraku - AI Japanese Learning App | Native Kotlin, Jetpack Compose, MVVM/Clean Architecture, Kotlin Coroutines & Flow, Retrofit, KanjiVG, Compose Animation APIs

AI-native Android app for learning Japanese through an interactive Knowledge Graph Constellation, a conversational AI Sensei, and a custom stroke-order drawing engine.

- Engineered a production-ready Android application as a Solo Developer using Native Kotlin and Jetpack Compose, featuring a custom 2D Knowledge Constellation canvas with fluid animations tracking user mastery across Hiragana, Katakana, Vocabulary, Grammar, and Kanji.
- Built a highly optimized UniversalCharacterCanvas drawing engine capable of parsing KanjiVG vector data, performing real-time stroke-order validation with animated guides and Bézier-curve path tracing for all Japanese character sets.
- Integrated a real-time AI Sensei chat interface powered by streaming LLM endpoints (SSE/WebSockets), delivering structured JSON responses for inline grammatical corrections and natural language conversation practice.
- Architected a state-sync engine using Kotlin Coroutines, Flow, and Retrofit to persist non-linear learning progression graphs to a custom backend, with an on-demand asset caching strategy that reduced APK size by offloading KanjiVG stroke data to a remote CDN.

SKILLS

Frontend:	React.js (Zustand, React Query), Vue.js ecosystem (Nuxt, Pinia), Tailwind CSS, TypeScript, WebGL (Three.js), Konva.js
Backend:	Node.js (Fastify, Express), WebSockets, Prisma ORM, SQL Server, MongoDB, Redis, RabbitMQ, PHP (Laravel), REST & gRPC
Mobile:	Flutter (GetX, Bloc), Native Kotlin, Native Java Integration
DevOps & Tools:	Docker, Linux Server Management, CI/CD (GitHub Actions/GitLab), Power Automate
Languages:	English (Professional Proficiency), Indonesian (Native)

CERTIFICATIONS

- TOEIC® Listening & Reading - Score: 850 (2023)
- BNSP Certification - Junior Mobile Developer
- LSP Certification - Junior Web Developer
- FreeCodeCamp - Javascript Algorithms & Data Structures