

ICHLASUL FIKRI ASTAMAR PUTRA

Software Engineer

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SUMMARY

Full-Stack Engineer with experience across the delivery cycle — from database modeling and API design to frontend work with React and Next.js, including building component libraries with Storybook during an internship at [Vidio.com](#) . Recently worked on integrating DeepSeek AI into a fintech reconciliation system, turning a manual process into something more automated. Backend stack covers TypeScript, Express/NestJS, Bun/NodeJS, and PostgreSQL, with additional background in Android development (Kotlin + Jetpack Compose) that helps when jumping between contexts. Still growing, but the kind of person who takes that seriously — learning deliberately and applying it to real things.

EXPERIENCES

Fortius Solusi Informatika, Research and Development Staff (Fullstack Developer) 03/2025 – 10/2025 | Jakarta

- Designed and developed an AI-assisted reconciliation automation tool that guides users step-by-step through ingesting bank transaction data, cleaning and mapping fields from CSV files, generating XML configurations, and triggering reconciliation jobs in the internal system
- Integrated DeepSeek AI into the workflow to automate matching key suggestions and XML generation, iterating extensively on prompt design to achieve consistent and reliable outputs aligned with reconciliation business rules
- Contributed to the existing .NET 4.7.2 backend and [Ext.NET](#) frontend of the core reconciliation application alongside feature delivery
- Initiated and wrote product technical documentation for key features of the reconciliation system
- Researched and prototyped installer solutions to simplify client-side deployment of the internal application
- Worked across two stacks throughout the role — React with Chakra UI for early-stage frontend work, and .NET / [Ext.NET](#) with MSSQL and PostgreSQL for the core product

Bangkit Academy 2024 by Google, GoTo, Traveloka, Android Learning Path Mentor 02/2024 – 07/2024 | Indonesia

- Mentored 25 students in the Android development learning path, guiding them through weekly sessions, code reviews, and Q&A
- Monitored individual progress to ensure students stayed on track with the program timeline, providing motivation and support alongside technical guidance
- Achieved strong cohort outcomes: 3 mentees graduated with distinction, one secured a company-based capstone project, and several went on to roles at well-known tech companies

[Vidio](#) , Front End Engineer (Internship) 08/2023 – 12/2023 | Jakarta

- Built and maintained UI components using Storybook, contributing to the internal component library used across the platform
- Refactored existing JavaScript codebases to TypeScript and resolved import alias inconsistencies across the project in early onboarding phase
- Collaborated with senior engineers through pair programming, completing 120+ assigned tasks throughout the internship, Working on Extreme Programming Methodology
- Worked with mocked services to develop and test frontend components independently from backend dependencies

[Ema Realty](#) , Technical Lead & Fullstack Developer 05/2026 – Present | Tangerang

- Led technical direction and architecture decisions across the engineering team
- Developed and maintained full-stack features from backend APIs to frontend UI
- Built a legally-vetted document generation system with real-time preview and PDF export
- Applied mobile-first approach for non-technical older adult users
- Mentored and guided a Mobile Developer intern throughout development
- Set up CI pipeline and applied TDD across backend services
- Managed cross-functional collaboration with UI/UX Designer and fellow developer
- Deployed and maintained production infrastructure using Docker and DigitalOcean VPS

PROJECTS

MagerBeliGrocery, Online Grocery Web App 03/2026 – 05/2026

[Live Demo](#) [Backend Repo](#) [Frontend Repo](#)

Purwadhika Final Project · Next.js, Express.js, TypeScript, PostgreSQL, Prisma, Midtrans, RajaOngkir, OpenCage, Cloudinary, Vercel, Scrum Methodology

As the team's technical lead on a three-person project, I was responsible for establishing the entire project foundation before a single feature line was written — defining the layered backend architecture (router → controller → service → repository), the feature-based frontend module structure, Git branching conventions, and deployment pipeline to Vercel and Neon.tech. The task was to build a location-aware online grocery platform where every product, order, and admin interaction is scoped to the nearest store branch from the user's location. My feature scope covered the homepage with browser geolocation and Haversine-based store selection, a full authentication system with email verification and JWT refresh token rotation, multi-address management with interactive Leaflet maps and OpenCage reverse geocoding, RajaOngkir shipping cost integration cached to the database for reliability, and store management with role-based admin assignment. The challenge wasn't just the technical complexity — it was building all of this while also writing unit tests using a TDD approach across 7 service-layer test files, ensuring business logic stayed isolated and mockable. The result was a fully deployed, production-grade application with clean architecture that the whole team could build on consistently.

ClaraAI, AI-Assisted Reconciliation Automation Tool 03/2025 – 06/2025

[Preview](#)

Fortius Solusi Informatika R&D · TypeScript, React, DeepSeek AI, .NET 4.7.2, PostgreSQL, MSSQL

Before ClaraAI existed, reconciliation was an entirely manual process — the developer team would receive raw transaction data from clients, clean and separate it by hand, manually input it into MSSQL, and then run the reconciliation executable. The whole cycle took one to two weeks per run. I was tasked with building an AI-assisted tool that could guide users step by step through that same process: ingesting CSV data, cleaning and mapping fields, generating matching key suggestions via DeepSeek AI, producing the XML configuration used by the internal reconciliation engine, and triggering the reconciliation job — all through a structured UI. The hardest part wasn't the integration itself but making the AI output consistent and reliable enough to be usable in a financial context; prompt engineering for reconciliation logic required significant iteration to get outputs that aligned with real business rules. The result brought that two-week process down to roughly one day for standard reconciliation cases, with accuracy sitting at 65–75% depending on data complexity — honest numbers that made it a practical tool for simpler reconciliation workloads while the team continues to refine it.

Emma Realty, Property Consultant Listing Web App (Ongoing)
05/2026 – 06/2026

[Deployed Site](#)

Side Project · NestJS, Bun, TypeScript, Next.js, PostgreSQL, Prisma, Cloudflare R2, Docker, Biznet Gio VPS, CI/CD

This is a solo-ish end-to-end project I am building for a family-owned property consultancy business, collaborating with a dedicated UI/UX designer and a legal team to ensure the product is both polished and compliant. The core design constraint came early: the primary users are older adults who don't use laptops or desktops, so despite building a web application, I committed to a strict mobile-first approach where every interaction and information hierarchy is designed around a small-screen, less technically fluent user. One of the more significant features I implemented is a document generation system for lease and sale agreements — built in close consultation with the legal team to ensure every clause is legally sound — where agents can fill out a structured form, preview the document in real time similar to a CV builder, and export or print it directly from the browser as a production-ready PDF. On the infrastructure side, I set up CI on both backend and frontend, applied TDD on the backend, and am deploying via Docker to a Biznet Gio VPS with CD planned as the next milestone. Building it end-to-end across backend, frontend, legal compliance, and infrastructure has sharpened my ability to make pragmatic decisions while staying aligned with both a designer's vision and real-world business requirements.

Ticki Tacka, Event Ticketing Management App
02/2026 – 02/2026

[Backend Repo](#) , [Frontend Repo](#)

Purwadhika Mini Project · Next.js, Express.js, TypeScript, PostgreSQL, Prisma

Working as one half of a two-person team, I owned Feature 2 entirely — user authentication and authorization, a referral system with points and coupon expiration logic, profile management, and the organizer dashboard with statistics visualization. The situation was more than just a technical one: my teammate was going through his first experience working in a structured team workflow, so part of my responsibility was guiding him through branching conventions, code review, and keeping us both on timeline — while we also had no UI/UX designer, meaning every design decision had to be reasoned through together from scratch. I balanced mentoring alongside my own delivery, which slowed things at points but meant we finished with a shared understanding of the codebase. The outcome was a working mini project covering the full feature scope, and personally a stronger sense of how to keep a team moving without a dedicated design resource.

RashIO, Skin Disease Detection Android App
2023 – 2023

[Organization Repo](#)

Bangkit Academy Capstone · Kotlin, Jetpack Compose, Retrofit, MVVM, Dependency Injection, FastAPI (ML backend)

Our six-person cross-functional team — two Android, two Cloud, two ML — set out to build a mobile app that could detect skin diseases from a photo, with the ML model served through a dedicated FastAPI backend rather than bundled on-device. On the Android side, I made a deliberate architectural decision early on: despite the team's primary familiarity with XML-based layouts, I pushed to use Jetpack Compose for the UI layer, knowing it was the direction Android development was heading and that the Bangkit curriculum had introduced it. The challenge was absorbing Compose's declarative paradigm in parallel with building the actual product, integrating Retrofit for the ML inference API calls, and keeping the MVVM structure clean with proper dependency injection. The project came together well enough to earn a 90 out of 100 in the capstone evaluation, and graduating from Bangkit with that score validated that the technical risk of choosing Compose was the right call.

EDUCATION

Purwadhika Digital Technology School, 2026
11/2025 – 05/2026 | Tangerang, Indonesia

AI Fullstack Software Engineer

- Overall Score: 82.2/100

Universitas Esa Unggul, Bachelor of Computer Science (S.Kom) — Informatics Engineering
09/2020 – 10/2024 | Indonesia

- GPA: 3.97/4.00
- Assisted lecturer in a community service program (*pengabdian masyarakat*) as a facilitator
- Actively participated in campus organizations and extracurricular activities

SKILLS

Hard Skills: Backend Development | RESTful API, REST API Design | Database Modeling | System Analysis | Unit Testing (TDD) | AI Integration & Prompt Engineering | Mobile Development (Android) MVVM | Frontend Development | CI/CD Pipeline Setup | Docker & VPS Deployment

Soft Skills: Lifelong Learning | Team Mentoring | Cross-functional Collaboration | Technical Documentation | Agile & Scrum Workflow | Pair Programming | Problem-solving | Critical Thinking

Tools: TypeScript | Node.js | Bun | NestJS | Express.js | Next.js | React | PostgreSQL | Prisma | Git | Docker | Tailwind CSS | Shadcn/UI | Jest | Kotlin (Jetpack Compose) | Claude | DBMS | Visual Studio Code | WSL

Languages: Bahasa Indonesia (Native) | English (Professional Working Proficiency)

CERTIFICATIONS

AI Fullstack Software Engineer - Purwadhika Digital Technology School: [🔗](#) Completed intensive bootcamp for AI Fullstack Software Engineer, top of the classmate out of 6, created Ticki Tacka as mini project and MagerBeliGroceries as Final Project. Overall score: 82.2/100

Software Quality Assurance — BNSP (Badan Nasional Sertifikasi Profesi): [🔗](#) National professional certification in software quality assurance.

Android Learning Path - Bangkit Academy 2023 by Google, GoTo, Traveloka: [🔗](#) Intensive independent study program by Google, GoTo, and Traveloka. Capstone: Built **RashIO** — an Android app for skin disease detection, integrated with a dedicated FastAPI backend service handling machine learning inference and prediction.

The Web Developer Bootcamp 2022 - Udemy: [🔗](#) Covered full-stack web development with Express.js, MongoDB, and Bootstrap. Final project: YelpCamp clone built from scratch.