

Agung Nugroho

Technical Leader · Mobile Architecture & Design Systems

CONTACT

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Location Depok, West Java, Indonesia

TECHNICAL SKILLS

Mobile
React Native (New Architecture, Expo), Flutter (Bloc/Riverpod), Kotlin Jetpack Compose (Hilt/StateFlow), SwiftUI (Combine), native modules

Frontend
Next.js (App Router), React.js, TypeScript, JavaScript

Architecture
Clean Architecture, MVVM, Feature-Driven, Atomic Design, Design Systems, Modular Monorepo (Turborepo, Melos)

State Management
TanStack Query, Redux Toolkit, Zustand, Jotai, Bloc/Cubit, Riverpod, StateFlow, Combine

API & Data
REST, GraphQL, Axios, Zodios + Zod, Retrofit, PostgreSQL (RLS), Java Spring Boot (collaboration)

Cloud & Platforms
Firebase, Supabase, Vercel, Expo EAS (Build, Update)

Monitoring
Firebase, Crashlytics, Sentry, Amplitude

CI/CD & Deployment
GitHub Actions, Fastlane, Bitrise, EAS Build, self-hosted runners, App Store, Google Play, Vercel

Testing
Jest, React Testing Library, Patrol, Playwright

AI Tooling
Claude Code (custom skills), Cursor, ML Kit

CORE COMPETENCIES

- ▶ Mobile Architecture Design
- ▶ Design Systems (Atomic Design)
- ▶ Cross-platform & Native Development
- ▶ Business-to-Architecture Translation
- ▶ Technical Leadership & Mentoring
- ▶ Engineering Community & Standards
- ▶ People Management
- ▶ Legacy Modernization
- ▶ AI-Native Engineering
- ▶ App Store / Play Store Deployment

PROFESSIONAL SUMMARY

Technical Leader for Mobile & Frontend with 8+ years building production apps for iOS and Android, promoted three times at PT. Sinarmas Multifinance from Mobile Developer to Technical Leader. Leads a team of nine engineers, translating business needs into architecture decisions across React Native, Flutter, Kotlin Compose, SwiftUI, and Next.js in a regulated financial services domain. Built and maintains an in-house atomic design system, led incremental migrations to MVVM and Clean Architecture without freezing releases, and grows engineering capability through code review, written standards, and AI-native workflows. 20+ production apps shipped across Fintech, HR, and Logistics.

WORK EXPERIENCE

PT. Sinarmas Multifinance

Nov 2020 – Present · ~6 yrs · Jakarta, Indonesia

Technical Leader, Mobile & Frontend Jan 2026 – Present

- Lead a team of 9 mobile and frontend engineers; own architecture decisions by analyzing requirements with product and business stakeholders and turning them into technical designs the team can execute.
- Built and maintain an internal design system package of ~100 components based on Atomic Design, with one-way dependency rules, prop-based variants, and a clear boundary between generic UI and financing-domain components; defined a token-first roadmap (semantic tokens, Storybook coverage) to consolidate an organically grown palette.
- Led the incremental migration of a React Native sales app from MVC-style code to feature-driven MVVM while the main branch kept shipping; high-risk changes were deferred deliberately as documented tech debt and refactored once proven stable in production.
- Designed a type-safe API layer (Zodios, Zod, TanStack Query) where a single contract generates types, query hooks, and runtime validation; implemented token refresh with request queueing to prevent concurrent refresh calls. A systematic audit found 81 of 201 endpoint definitions with untyped path parameters.
- Driving the Flutter app migration fromGetX/MVC to Bloc, MVVM, and Clean Architecture, rolled out module by module.
- Built a lightweight face-liveness library in native Swift using Google ML Kit and Apple camera frameworks, with on-device validation.
- Architected Next.js web applications, refactored legacy codebases, and designed CI/CD pipelines for stable production releases.

Lead Mobile Engineer Dec 2024 – Dec 2025

- Drove architecture and technology decisions across React Native, Flutter, Kotlin Jetpack Compose, and SwiftUI, keeping native and cross-platform codebases consistent and maintainable.
- Directed end-to-end mobile product development from technical specification through release, partnering with product and Java Spring Boot backend teams.
- Led performance and debugging initiatives, including query optimization that cut critical report execution from 730 seconds to single-digit seconds.
- Owned full-cycle people management: performance reviews, one-on-ones, career development, and resourcing; built internal tooling for progress tracking and performance assessment.
- Proposed a self-hosted macOS CI runner for GitHub Actions, backed by benchmark data showing significant build-time gains over hosted runners.

Senior Mobile Developer Dec 2023 – Dec 2024

- Delivered full-cycle React Native features using MVVM, Atomic Design, and Feature-Driven architecture; optimized legacy systems and configured Firebase, Expo, and Amplitude for real-time analytics.

Mobile Developer Nov 2020 – Dec 2023

- Built and maintained native Android (Java, Kotlin) and Flutter apps; refactored legacy code and partnered with UI/UX and backend teams across Fintech and HR product lines.

Notable apps: **Simfast**, **Garasi Dealer**, **Garasi Buyer**, **Kreditsimasku**, **Kreditsimasku Syariah**, **Marketing Apps**, **HRMS**, **SMMF One**

KEY ACHIEVEMENTS

IC to Tech Lead: promoted 3x within one company in 5 years.

20+ Apps: production apps across Fintech, Logistics, and HR.

Design System: in-house atomic library of ~100 components.

Query Optimization: report execution cut from 730s to seconds.

AI-Native Team: 50+ reusable AI skills encoding team standards.

EDUCATION

D3, Information Technology

Universitas Logistik dan Bisnis Internasional
2014 – 2017

Mobile Application Developer

Pos Logistik Indonesia · Dec 2017 – Jan 2020 · 2 yrs 2 mos · Bandung, Indonesia

- Architected and delivered native Android and cross-platform iOS applications for logistics operations, deployed to field teams across multiple provinces.
- Led end-to-end delivery of 6 mobile applications from architecture design through QA, release, and maintenance, reducing crash rates through performance profiling.

Notable apps: **Polimoda, Cement Transport TMS, MAP TMS, Pick Up, Pos Attendance System**

Android Developer

PT. Voxteneo Indonesia · Mid 2017 · < 1 yr · Bandung, Indonesia

- Built a production Android application end-to-end, from architecture design through Play Store release, applying MVC and clean code principles.

ENGINEERING COMMUNITY & AI-NATIVE PRACTICE

- **Standards & documentation:** authored cross-stack architecture and coding standards (React Native, Flutter, Kotlin Compose, SwiftUI, Next.js, Spring Boot, E2E with Patrol and Playwright), plus engineer- and product-facing guides on release strategy (OTA vs. force update).
- **Mentoring:** use code review as the main teaching channel for Clean Architecture, code quality, and documentation, so standards live in the team rather than with one person.
- **AI-native engineering:** maintain 50+ reusable Claude Code skills encoding team standards (architecture, code review, tickets, git workflow), mapped to the lifecycle Spec → Generate → Verify → Govern; built a five-stage AI curriculum for engineers with no prior AI experience.
- **Technical writing:** 7 published Medium articles across two series on mobile and web architecture.

PORTFOLIO & SIDE PROJECTS

HCIS · *React Native / Expo · TypeScript · REST API*

Full HR suite (attendance, leave, payroll, employee profiles, appraisal) built independently as a personal project; Sinarmas Multifinance later requested an internally branded version after seeing the working product.

Talent Hub · *Next.js · React Native / Expo · Supabase · Turborepo*

Resource allocation system built as a full-stack Turborepo monorepo with a Next.js web app and React Native client; Supabase (PostgreSQL) backend with deny-by-default RLS and role-based access control.