

DHANI DZULKARNAIN

Batam, Riau Islands | +62 813-7208-0516 | dhanidzulkarnain1@gmail.com
linkedin.com/in/dhani-dzulkarnain | github.com/DhaniDzulkarnain1 | dhanidzulkarnain.com
Full-stack Software Engineer — Web & Mobile

EDUCATION

Politeknik Negeri Batam

Aug 2023 – Jul 2027 (Expected)

D4 Software Engineering Technology, Informatics Engineering Department — GPA: 3.87 / 4.00

Batam, Indonesia

PROJECTS

ASBI | React, Vite, TensorFlow.js, MediaPipe Hands, TailwindCSS

2026 – Present

- Building a browser-based platform for learning Indonesian Sign Language (SIBI) that classifies 36 gestures (26 letters + 10 digits) from a live webcam feed at 30 FPS with end-to-end latency below 50 ms.
- Trained an LSTM classifier on 63-dimensional MediaPipe hand-landmark sequences reaching ~92% test accuracy; serve the model entirely client-side via TensorFlow.js, eliminating inference servers.

Kokonut | Next.js 16, React 19, TypeScript, TailwindCSS, Spring Boot, PostgreSQL

2025 – Present

- Architected a full-stack second-hand marketplace: 25 Spring Boot controllers exposing 201 REST endpoints over 24 PostgreSQL tables (auth, products, orders, chat, KYC, loyalty points, notifications, reports).
- Shipped 40 Next.js 16 App Router pages backed by 87 reusable TypeScript components (~34K LOC) and a 23-primitive design system; achieved Lighthouse SEO 100, Accessibility 96, and 0.8 s First Contentful Paint.

GLEMO | Flutter, Dart, Riverpod, GoRouter, Firebase, Google Maps

2025

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StudySphere | Flutter, Dart, Firebase RTDB, ESP32, FCM

2025

- Engineered an IoT-cloud pipeline connecting ESP32 (BH1750 light sensor, sound-level detection, relay-controlled lighting) to a 9-screen Flutter app via Firebase Realtime Database with event-driven WebSocket streaming under 500 ms latency.
- Implemented multi-device synchronized Pomodoro timer (10 s interval), background noise alerts (>76 dB, 2-min cooldown) via FCM push, and live MJPEG camera stream from ESP32-CAM.

Amarine | Kotlin, Jetpack Compose, MVVM, Hilt, Retrofit, Room, Firebase, Coroutines

2024

- Owned the Android client end-to-end as lead coder: 29 screens and 19 ViewModels (~14.2K LOC Kotlin) covering authentication (OTP, password reset), finance tracking with Vico line/bar charts, daily notes (CRUD), articles, and profile/settings.
- Integrated 23 REST endpoints via Retrofit and 2 Room entities for offline-first sync; delivered a 48 MB APK supporting Android 7.0+ (~91% device coverage) — awarded Best Project at MSIB Batch 7 Mobile Development among 20+ teams.

TECHNICAL SKILLS

- Languages: Dart, Kotlin, TypeScript, JavaScript, Java, SQL, HTML/CSS, Python
- Frontend: React, Next.js (App Router, SSR), Vite, TailwindCSS, Jetpack Compose, Flutter (Riverpod, GoRouter)
- Backend & Data: Spring Boot (REST), Node.js, PostgreSQL, Firebase (Firestore, Auth, Storage), Room, Retrofit
- Architecture & ML: Clean Architecture, MVVM, Hilt DI, Coroutines; TensorFlow.js, MediaPipe, K-Means clustering
- Tools & Languages (Spoken): Git, GitHub, Android Studio, Figma, ESP32/IoT; Indonesian (native), English (professional)

EXPERIENCE

Infinite Learning Indonesia

Sep 2024 – Dec 2024

Mobile Developer — Independent Study Program (MSIB Batch 7)

Batam, Indonesia

- Served as lead coder in an 11-person PADDLEPALS team (6 engineers + 5 PM/UX/design) during the 4-month MSIB Batch 7 program; authored 76 commits (~192K lines added) — the largest contribution in the repository.
- Designed the full Android architecture (MVVM + Room + Retrofit + Jetpack Compose / Material Design 3) and shipped Amarine, recognized as Best Project among 20+ teams in the Mobile Development cohort.

Pemimpin.id

2025

Program & Project Coordinator — Regional Sumatra Community Program

Online, Indonesia

- Led a 7-person team to deliver a community social-impact initiative reaching 200+ workshop participants; awarded Most Impactful Social Project #1 (top 3 nationwide).