

Mohammad Zohaib

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Summary

Android Engineer and Software Developer with experience across mobile, backend, and AI systems. Built and shipped production Android applications at Lettrblack and currently working on multi-tenant integration infrastructure and agentic AI orchestration at Hyperzod. Comfortable moving across layers of a system — mobile architecture, API design, background processing, and LLM-powered workflows. **B.Tech, Information Technology** — Ajay Kumar Garg Engineering College, 2023–2027 (CGPA: 8.1/10)

Work Experience

Software Development Intern | Hyperzod

Jun 2026 – Present | Lucknow, UP

- Building a **multi-tenant** marketing integrations platform connecting third-party providers (Zoho Campaigns, Mailchimp, Bird) via a **provider-agnostic architecture** with unified API contracts.
- Implemented **authentication flows**, self-healing token refresh logic, and per-provider **rate limiting** for reliable and compliant data exchange across integrations.
- Designed bulk contact sync and **webhook** pipelines using **HTTP connection pooling**, **Redis caching**, and asynchronous **Laravel queue jobs** to handle scale without blocking the request cycle.
- Implementing **LangGraph** and **MCP Servers** for agentic AI orchestration; built multi-agent workflow pipelines with SSE-based streaming and Redis Pub/Sub task dispatch.

Android Developer Head | Lettrblack

Mar 2025 – Jun 2026 | Bengaluru (Remote)

- Led a **cross-functional team of 5** (Android & Backend) — sprint planning, task delegation, PR reviews, and delivery across 4 modules: authentication, wallet, streak tracking, and content.
- Architected the Android client in **Jetpack Compose** with **Clean Architecture** and **Hilt DI**, connected to a Spring Boot/Postgres backend; made deliberate trade-offs to balance execution speed with scalability.
- Shipped a **gamified retention engine** (streaks, leaderboards, wallets, badges) and a 3D flashcard player using `graphicsLayer` and `HorizontalPager` — delivered within **2-week sprint cycles**.
- Pivoted the AI Doubt Solver from **Gemini to Groq** mid-sprint to bypass a billing blocker, maintaining zero delay on the roadmap; fixed **3 production bugs** verified and closed within the same sprint.

Projects

Foundry — Visual Page Builder

Vue 3, Laravel, PostgreSQL, Pinia, Tailwind CSS, Docker, Railway

- Built a drag-and-drop page builder with a **component-driven state engine** (Pinia), dynamic serialization of nested component trees into **REST-persisted JSON**, and a context-aware property panel bound to active component state.
- Deployed on **Railway** via Dockerized Nixpacks pipelines; implemented debounced API calls for zero-data-loss sync and an independent preview renderer that hydrates raw component state client-side.

Expectr — AI Personal Finance & Habit Tracker

Kotlin, Jetpack Compose, RoomDB, Coroutines, Gemini AI

- Fintech app built end-to-end as sole developer — Financial Health Score, savings engine, and **Gemini AI** REST integration; fully offline via **RoomDB**. Cut perceived load time by **40%** using spring-physics animations across **5+** screens.

Zenith — Digital Wellbeing Android Launcher

Kotlin, Jetpack Compose, Coroutines, StateFlow, DataStore

- Custom launcher replacing the stock home screen; `DataStore`-backed focus engine and **PackageManager API** integration for session tracking and app usage control.

Android Software for Vending Machines (Freelance)

Kotlin, Android SDK

- Scoped and delivered a kiosk app to a paying client on schedule — hardware integration, REST communication, item selection, payment flow, and machine control.

Technical Skills

Languages: Kotlin, Java, Python, JavaScript, SQL

Android: Android SDK, Jetpack Compose, MVVM, Clean Architecture, Coroutines, StateFlow, Retrofit, Firebase, RoomDB, DataStore, Hilt DI

Web & Backend: Vue.js, Laravel, REST APIs, PostgreSQL, Django

AI & Intelligent Systems: LangGraph, LangChain, LangSmith, MCP Servers, Gemini AI, Groq, Multi-Agent Orchestration

Systems: Multi-Tenancy, Rate Limiting, Webhooks, Redis, HTTP Pooling, Async Processing, SSE, Authentication, Idempotency, ACID, CAP Theorem

Design Principles: SOLID, DRY, KISS, YAGNI, Clean Architecture, Separation of Concerns, Provider-Agnostic Design

Tools: Android Studio, Git, GitHub, Postman, Docker, GitHub Actions CI, Laravel Telescope, ngrok, Claude CLI, Antigravity CLI, Codex

Extracurricular Activities

- Member of **Team Footprints** — delivered speeches and written content at **5+ college events** as an orator and writer.
- Publishes articles on Android development at **mzohaib.hashnode.dev** covering Jetpack Compose, architecture, and tooling.