

Ankit Singh Software Engineer

 Ahmedabad, India

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 Ankit Singh

Summary

Full-stack Software Engineer with a strong foundation in **Flutter and Android** development, and hands-on experience in **Node.js, TypeScript, PostgreSQL**, and **deployment**. Proven track record of **modernizing mobile apps**—reduced HDFC ERGO app size by **62%**, increased **crash-free rates to 99%**, and improved **load times by 40%**. Successfully **revived and scaled backend systems**, implemented **real-time features** with **WebSockets**, and led **cross-functional teams** across backend and mobile development. Experienced in **AI-based SDK integrations** (face liveness, verification), **advanced security** (root detection, SSL pinning, OWASP Top 10), and **CI/CD pipeline automation**. Recognized as **Synoverge Hackathon runner-up** for AI chatbot development and known for **taking ownership, mentoring peers**, and delivering **secure, performant solutions** across platforms.

Skills

- Languages:** TypeScript, JavaScript, Dart, Kotlin, Java
- Frameworks:** Node.js, Flutter, Socket.io
- Architectures:** BLoC, Clean Architecture, MVVM, Provider, Riverpod, REST APIs
- Database and Cloud:** PostgreSQL, Firebase Realtime DB, Cloud Firestore, SQLite
- Communication & Leadership:** Team Mentoring, Code Reviews, Cross-Functional Collaboration, Agile/Scrum, Ownership & Initiative
- DevOps & Tools:** PM2, Nginx, GitHub Actions, Postman, Swagger (OpenAPI), Android Studio, VS Code, Xcode, Git
- Security:** JWT Authentication, Rate Limiting, Auth Middleware, Error Handling, CORS, Root Detection, SSL Pinning, OWASP Top 10 Compliance
- Testing & Debugging:** Crashlytics, Firebase Analytics, Flutter DevTools, Production Monitoring, CI/CD Automation

Work Experience

Software Engineer

Synoverge Technologies 

2024/07 – present | Ahmedabad, India

- Built and maintained Flutter apps for HDFC ERGO with CI/CD automation, analytics, and secure architecture
- Developed backend for Giveezy using Node.js, TypeScript, and PostgreSQL with custom middleware
- Integrated real-time chat, social logins, OTP, notifications, and file uploads
- Improved backend performance using optimized PostgreSQL functions
- Led a Flutter team, conducted code reviews, and ensured high-quality app delivery

Associate Software Engineer

Synoverge Technologies 

2023/06 – 2024/06 | Ahmedabad, India

- Migrated legacy modules to Flutter with reusable architecture
- Participated in sprint planning, estimation, code reviews, and retrospectives
- Maintained app release cycle, debugging, and production monitoring

Education

B.Tech in Computer Science and Engineering

Parul Institute of Engineering and Technology

2019 – 2023 | Vadodara, India

HSC

Sanskari Bharti High School

2017 – 2019 | Vapi, India

SSC

Wesleyan English Medium High School

2016 – 2017 | Vapi, India

Projects

ETE Claims – HDFC ERGO

Role: Flutter Developer | Tech: Flutter, Kotlin, Swift, Firebase, REST APIs, Method Channel, Location Services

- Migrated legacy native Android app to Flutter**, enabling **cross-platform support** for Android and iOS
- Achieved **62% reduction in app size**, **99% crash-free sessions**, and **40% faster load times** through optimization

- Built key modules for **survey input**, **KYC collection**, **policy & claim history**, **AI-based damage evaluation**, and **document upload**
- Implemented **advanced image processing** using **platform-specific Kotlin and Swift code** via **Flutter method channels**, handling ~70 **watermarked/compressed images** in **under 10 seconds**
- Added **location-based watermarking**, timestamping, and secure file upload for claim evidence
- Integrated **root detection**, **SSL pinning**, and **OWASP Top 10 fixes** to meet enterprise security standards
- Improved claim processing workflows for surveyors by enabling **real-time tracking**, **CP loss computation**, and **Mi Estimation** (Maruti, Kia) modules
- Contributed to a robust, production-grade solution that significantly enhanced **survey accuracy**, **processing speed**, and **data traceability**

Giveezy ↗

Role: Backend Developer / Lead | Tech: Node.js, TypeScript, PostgreSQL, Flutter, Socket.io, Multer, Firebase, Swagger, Docker, Jenkins

- Designed and developed a robust backend from scratch using **Node.js (TypeScript)** with a layered architecture, ensuring modularity, scalability, and maintainability
- Implemented a suite of custom middleware for **JWT-based authentication**, **error handling**, **rate limiting**, **logging**, and **guest access restriction**
- Developed an event-driven **real-time chat system** using **Socket.io** ↗, supporting direct messaging, message status, and attachments
- Integrated **Multer** for secure and efficient file uploads, including profile pictures, documents, and chat media
- Built **social login flows** for Google, Facebook, and Apple using OAuth 2.0, along with **OTP-based email verification** via SMTP mailer
- Created **PostgreSQL functions and triggers** to handle complex data operations
- Authored and maintained comprehensive **Swagger (OpenAPI)** documentation, streamlining collaboration with frontend and QA teams
- Containerized the backend using **Docker** and automated CI/CD pipelines with **Jenkins**, enabling version-controlled, testable, and rollback-safe deployments
- Led a **Flutter development team** of 3 developers, overseeing architecture decisions, reviewing code for quality, and aligning backend contracts

Workshop Claim Management – HDFC ERGO ↗

Role: Android Developer | Tech: Java, C++, Android SDK, Retrofit, Security Libraries

- Maintained the **Workshop Claim Management app** for **cashless workshop partners** to **intimate, process, and track insurance claims** in real time
- Implemented new features for **claim creation**, **document uploads**, and **status tracking** to improve partner workflow and reduce claim processing time
- Strengthened app security by integrating **root detection**, **SSL pinning**, and replacing **weak hashing algorithms** with modern cryptographic standards
- Implemented **certificate pinning** using OkHttp to prevent **Man-in-the-Middle (MITM) attacks**
- Integrated a **native .cpp library** to secure API keys at runtime, ensuring obfuscation and preventing API key extraction through reverse engineering
- Conducted code audits and applied OWASP recommendations to ensure the app met **industry-grade security standards**
- Collaborated closely with QA and backend teams to ensure **secure and reliable communication** between the app and API servers

Italy Global – VFS Global ↗

Role: Android Developer | Tech: Android, Kotlin, REST APIs, reCAPTCHA

- Integrated **AI-based face liveness detection** and **face verification** **SDKs** to ensure user authenticity and prevent spoofing
- Implemented **Google reCAPTCHA**, bot protection, and suspicious behavior tracking to meet international security standards
- Enabled **secure file capture, storage, and upload** pipelines with permission-controlled access to camera and files
- Delivered features under strict performance and UI/UX requirements, ensuring a **smooth, low-latency experience** across devices
- Improved onboarding efficiency and reduced fraudulent submissions by enhancing identity verification workflows