

Ankit Singh

Software Engineer

📍 Ahmedabad, India

✉ s.ankit1140@gmail.com

☎ 7405709824

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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

2024/07 – present | Ahmedabad, India

Synoverge Technologies

- 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

2023/06 – 2024/06 | Ahmedabad, India

Synoverge Technologies

- 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

2019 – 2023 | Vadodara, India

Parul Institute of Engineering and Technology

HSC

2017 – 2019 | Vapi, India

Sanskar Bharti High School

SSC

2016 – 2017 | Vapi, India

Wesleyan English Medium High School

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