

# AJIT GOUD

Software Engineer

Mumbai, India

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## SUMMARY

Skilled Software Engineer with 4.5+ years of experience building high-performance, user-centric mobile and cross-platform applications. Specialized in Android development (Kotlin, Java) with deep expertise in Bluetooth (Classic & BLE), voice interaction (VAD, wake word), WebRTC, and modular SDK design. Proven track record of delivering AI-integrated features (OpenAI, ChatGPT, TTS, visual search) and seamless React Native integration via TurboModules. Adept in Agile environments, well-versed with Git, JIRA, and Confluence. Love to solve complex problems and deliver intuitive, scalable solutions for next-gen user experiences.

## SKILLS

**Languages:** Kotlin, Java, Python, Javascript, Typescript

**Android development:** Android SDK, Jetpack Components, Coroutines, Firebase (Auth, Firestore, Cloud Functions), RESTful APIs, Hilt (DI), AAR packaging, Gradle, Espresso, Unit Testing, Jetpack Compose, Bluetooth (Classic & BLE), LiveKit, WebRTC

**Architecture & SDK:** MVVM, Modular SDK Development, TurboModules (React Native)

**Web & Cross-Platform:** ReactJS, Next.js, Node.js, Flutter, HTML, CSS, Tailwind CSS

**Databases:** Room, SQLite, MySQL, MongoDB

**Dev Tools & Practices:** Git, GitHub, GitLab, JIRA, Confluence, Code Review, Debugging, Agile/Scrum

**Computer Science Fundamentals:** Data Structures, Algorithms, System Design

## EXPERIENCE

**Software Engineer** — *NeoSoft, Mumbai*

FEBRUARY 2023 - PRESENT

### 1. Jio Tesseract

- Development of a modular Android SDK for smart glasses, aiming to encapsulate core components like device communication, audio handling, settings, and APIs to support scalable feature integration.
- Integrated the native Android SDK with a React Native app using TurboModules, enabling high-performance cross-platform interaction.
- Implemented audio streaming via Bluetooth RFCOMM as part of a PoC to emulate smart glass behavior for mock devices.
- Designed and built voice-driven workflows, where user prompts were captured via mic, with Silero VAD detecting silence (end of prompt), and routed to AI for real-time interaction.
- Enabled contextual voice features such as music control (Spotify), assistant responses, navigation, calls, and notifications—driven by natural language prompts.

- Feature readiness and delivery for the IMC 2024 showcase, demonstrating cutting-edge capabilities like voice AI, visual search, multi-language support, and live video streaming—contributing to a highly successful product demo.
- Implemented wake word detection using Picovoice, later enhanced with Sensory SDK, enabling passive, hands-free voice activation.
- Developed Bluetooth Classic and BLE-based pairing for seamless connectivity between glasses and the companion app.
- Built custom camera features for image/video capture, and integrated LiveKit for low-latency video streaming.
- Conducted a WebRTC-based PoC for reliable data transfer using negative acknowledgments (NACK), ensuring lossless transmission of large files.
- Authored key architecture documents (HLD, SBS) and conducted internal knowledge sharing sessions on Bluetooth, audio processing, wake word logic, and native-module integration.
- Contributed to competitor analysis by reverse-engineering key app flows to inform internal product decisions.

## 2. Alyve Health

- Built an Android-native library integrated via Expo + React Native to enable Google Fit features across platforms.
- Delivered smooth integration into health tracking app, improving fitness data accuracy and user experience.

### Senior Software Developer — *SuperUs Systems Pvt Ltd, Mumbai*

DECEMBER 2022 - NOVEMBER 2023

- Built Android apps for managing ESL tags via Bluetooth Low Energy, supporting dynamic templates, bulk updates, and reliable data transfer.
- Developed Android-based digital signage solutions for displaying online/offline content (images, videos, URLs) in defined sequences.
- Created an in-house ReactJS + Fabric.js canvas editor, enabling drag-and-drop of text, images, barcodes/QRs with undo/redo and shortcut support for ESL template design.
- Engineered a Java-based middleware for DynamicQR devices to communicate with WebSocket clients, enabling real-time payment processing and QR code updates.

### Assistant System Engineer — *Tata Consultancy Services, Mumbai*

JANUARY 2021 - DECEMBER 2022

- Developed and optimized Android apps using Jetpack components and Retrofit, improving performance by 20% and enhancing user experience.
- Built Apache Airflow DAGs for model integration and automated data workflows.
- Designed scalable Spark jobs using Hive, HDFS, and PySpark for large-scale data processing.
- Led and maintained a reporting system generating 200+ daily reports, ensuring stability through proactive debugging.
- Co-developed a Flask + Jinja2 web portal to automate testing, reducing manual effort and saving \$1,000 CAD annually.
- Conducted unit and integration testing, and tracked issues using JIRA to ensure feature stability.
- Delivered 2 process improvements saving over \$2,000 CAD/year, optimizing team efficiency and throughput.

## Early internships

- Android Intern @**Kalpataru computer services**: Built Material UI, integrated Firebase services, auth, Google Maps, AdMob.
- Flutter UI Intern @**E-Cell (IIT-H)**: Developed responsive UI for a prototype-based networking app.

## EDUCATION

**Bachelor of Engineering (Computer)** — *University of Mumbai, Mumbai*

JULY 2016 - OCTOBER 2020

## CERTIFICATES/ACHIEVEMENTS

- Winner, Smart India Hackathon 2019 – National Software Edition
- NPTEL Certification, Database Management – Completed with Distinction
- Mentor, Atharva Hackathon – Guided student teams through real-time problem-solving challenges
- Merit Scholarship – Awarded ₹80,000 per year for 5 consecutive years based on academic excellence

## PROJECTS

### Fintrade

- Automated NSE stock data scraping and generating daily stock/index charts in PDF format.
- Techstack: Python, Pandas, Web scraping, IO, Computing.

### WallHD

- Android app fetching wallpapers from Unsplash API, supports download, bookmark, and apply.
- Techstack: Android SDK, REST Api, Material design, XML, Retrofit, Jetpack paging, MVVM.

### Vernin

- Android app connecting PWD students with nearby scribes, enables chat upon confirmation.
- Techstack: Firebase, Google SDK, Glide, Architecture components, JSON, Cloud functions.

## LANGUAGES

**English | Hindi | Marathi | Bhojpuri**