

LAKSHAY DAWAR

Software Engineering Intern Candidate | AI Systems | Backend & Android Infrastructure

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[GitHub](#) | [LinkedIn](#) | [Portfolio](#) | [Codolio](#)

SUMMARY

Computer Science undergraduate with production experience across AI-integrated backend systems, Android networking, and user-facing products. Launched a WireGuard-based VPN client to Google Play with 100+ users in 48 hours and contributed to async speech-to-text workflows for a 100K+ user app. Focused on data structures, algorithms, software design, concurrency, networking, databases, debugging, reliability, and scalable AI infrastructure.

EDUCATION

B.Tech in Computer Science - Guru Gobind Singh Indraprastha University (GGSIPU), Delhi

Expected Aug 2028

GPA: 9.1/10 | Coursework: Data Structures & Algorithms, Operating Systems, DBMS, Computer Networks, OOP, Software Design

Coding Practice: Active DSA practice via [Codolio](#); focused on arrays, strings, trees, graphs, dynamic programming, greedy algorithms, recursion, and complexity analysis.

WORK EXPERIENCE

Full-Stack Developer Intern - Web3Task

Jan 2026 - Present

Delhi, India | AI productivity & consumer mobile startup

- Architected and launched Traverse VPN, a WireGuard-based Android client, using Kotlin/Java, Android VpnService, peer configuration, key generation, and tunnel lifecycle management; reached 100+ [Play Store](#) users in 48 hours.
- Optimized VPN reliability across 4G/5G/Wi-Fi switches through network-aware reconnection, DNS fallback, authentication recovery, and exponential backoff; targeted <1.5s tunnel setup and <3s recovery in testing.
- Developed REST APIs and backend workflows for Voice-to-Notes, a 100K+ user AI speech-to-text app, covering session management, transcription state tracking, async pipelines, and concurrent audio processing.
- Triaged 40+ Android/backend production issues using crash analytics, structured logs, and user reports; reduced incident resolution from hours to under 30 minutes for recurring client/server failures.
- Delivered 5 Android recording widgets and quick-access flows, driving a 15-25% lift in feature adoption; supported 6+ feature launches across 2 sprints with product, design, and marketing.

PROJECTS

Traverse VPN - WireGuard Android Client | Kotlin, Java, Android VpnService | [Play Store](#)

- Engineered a production Android VPN client with WireGuard concepts, Android VpnService, tunnel lifecycle handling, and network-state awareness; scaled from concept to 100+ users in 48 hours.
- Structured modular components across UI, tunnel manager, protocol/configuration handling, and connection lifecycle logic, enabling 3 feature iterations in 2 weeks with zero reported regression bugs.
- Hardened mobile-network reliability with auth recovery, DNS fallback, retry backoff, and reconnect logic for unstable 4G/5G/Wi-Fi conditions.

Voice-to-Notes - AI Speech-to-Text Product | Node.js, Firebase, Firestore, Android | [Live](#)

- Orchestrated backend workflows for audio session management, transcription state tracking, and concurrent processing for a 100K+ user speech-to-text application.
- Synchronized notes, sessions, and transcription state across devices using Firebase Realtime Database and Cloud Firestore; maintained <200ms sync latency target in common flows.
- Investigated 30+ user-reported transcription issues through crash logs and backend traces, improving successful transcription flow reliability by ~8%.

FloatChat - Smart India Hackathon 2025 | Team Lead, Full-Stack AI System | [Demo](#) | [GitHub](#)

- Directed a 6-member team to build and demo a full-stack AI system under a 36-hour national hackathon deadline.
- Mapped end-to-end architecture across ingestion, ML inference, REST gateway, and React frontend, allowing 6 developers to work in parallel across service boundaries.
- Presented a functional live prototype to judges, explaining architecture decisions, execution tradeoffs, and product flow.

Lead Generator - AI Company Intelligence Pipeline | Gemini, Tavily, Node.js, Zod | [GitHub](#)

- Created an AI-powered company intelligence pipeline that extracts website, funding, competitor, branding, marketing-copy, and tech-stack signals from 4+ external data sources.
- Orchestrated parallel enrichment with per-call timeouts, exponential backoff, and graceful degradation so reports still generate when providers stall or fail.
- Validated LLM outputs with Zod schemas to produce structured JSON reports for downstream product use and reduce malformed response failures.

ACHIEVEMENTS & LEADERSHIP

- Delivered 1 Google Play networking app and contributed to 1 AI speech-to-text product serving 100K+ users across Android, backend, and AI workflows.
- Resolved 70+ Android/backend and transcription issues using crash analytics, structured logs, backend traces, and user reports; reduced recurring incident resolution from hours to under 30 minutes.
- Led a 4-member project team during the Web3Task internship, coordinating task breakdown, implementation ownership, debugging, and release handoff for a production project.
- Directed 6 developers during Smart India Hackathon 2025, coordinated parallel frontend/backend/AI execution, and delivered a live AI-system demo within 36 hours.

TECHNICAL SKILLS

Languages: Java, Kotlin, Python, C++, TypeScript, JavaScript, SQL

Backend & Systems: Node.js, Express, REST APIs, WebSockets, async workflows, concurrency, synchronization, distributed systems fundamentals, Redis

AI Systems: LLM APIs, RAG, structured outputs, tool-calling workflows, prompt optimization, AI data pipelines, speech-to-text workflows

Databases: PostgreSQL, MongoDB, Firebase Realtime Database, Cloud Firestore

Mobile & Cloud: Android, Android VpnService, Firebase, Docker, Linux, CI/CD, Google Cloud Run, Vercel

Reliability & Debugging: structured logging, crash analytics, incident triage, timeouts, retries, exponential backoff, graceful degradation, performance debugging

CS Fundamentals: Data Structures, Algorithms, OOP, Operating Systems, DBMS, Computer Networks, Software Design