

LOHITH SURAPUREDDY

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EDUCATION

Vellore Institute of Technology

B.Tech in Computer Science and Engineering, CGPA: 8.14

September 2021 – May 2025

Vellore, Tamil Nadu

EXPERIENCE

Jyuni

Software Engineer (Remote)

November 2025 – Present

Atlanta, Georgia

- Integrated **Azure OpenAI (GPT-4)** to generate AI-powered SOAP notes by transforming raw trial data into professional clinical documentation, reducing therapist workload significantly.
- Spearheaded the integration of **ClaimMD** for automated insurance claim submissions, eligibility verification, and billing modifiers for healthcare providers.
- Implemented full subscription infrastructure using **Stripe**, designing secure webhook pipelines for billing cycles, trial periods, and automated payment recovery.
- Developed interactive client progress graphs using **Recharts** to visualize behavior trends, goal progress, and treatment effectiveness.

Jyuni

Software Engineer Intern (Remote)

August 2025 – November 2025

Atlanta, Georgia

- Architected the foundational multi-tenant platform using **Next.js** and **Firebase**, implementing strict company-level data isolation and HIPAA-aligned RBAC permissions.
- Built the real-time session engine using **React Query** and Firestore listeners, enabling sub-second updates for trial data and interactive goal management with **DnD Kit**.
- Developed automated onboarding and verification workflows using **SendGrid**, including secure email invites and activation flows for therapists and administrators.
- Implemented **jsPDF** to generate exportable clinical reports used in treatment documentation.

PROJECTS

SendIt – File Sharing App | [Live](#) | [GitHub](#)

- Engineered a serverless, peer-to-peer (P2P) file sharing application using **React.js** and **WebRTC**, leveraging a **WebSocket** signaling server to establish direct browser-to-browser connections.
- Eliminated server-side storage to ensure user privacy and optimized data chunking to achieve reliable transfer speeds of up to **4MB/s** for files exceeding **700MB**.

AI-Powered Code Assistant | [GitHub](#)

- Engineered a full-stack AI assistant using a **Node.js** backend and **Next.js** frontend to integrate the **Google Gemini API**, automating tasks like code review and documentation generation.
- Implemented a suite of analysis features including **language translation** and **code optimization** across **7+** languages, and secured the backend API with **rate limiting** to ensure reliable performance.

CollabNotes – Real-Time Notes App | [GitHub](#)

- Engineered a real-time collaborative editor using the **MERN stack** and **Socket.IO**, enabling multiple users to co-author documents with live, low-latency synchronization.
- Implemented a robust security model with **JWT authentication** and fine-grained **Role-Based Access Control (RBAC)** to manage document access for editors vs. viewers.
- Designed a scalable **RESTful API** to handle secure document sharing, access revocation, and complete user lifecycle management.

TECHNICAL SKILLS

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

Technologies/Frameworks: React.js, Next.js, Node.js, Express.js, Tailwind CSS, AWS, GCP

Databases: Firestore, MongoDB, MySQL

Developer Tools: Git, GitHub, Postman

ACHIEVEMENTS

- Solved **500+** problems across [LeetCode](#), [GeeksforGeeks](#) and [CodeStudio](#).