

# SAMPATI RAO VENKATAPRASAD

Tekkali, Andhra Pradesh

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[leetcode.com/u/mrvenkattt](https://leetcode.com/u/mrvenkattt)

## OBJECTIVE

Passionate about solving complex problems and building **scalable, high-performance software systems**. Proficient in **Java, Python, JavaScript**, and **Data Structures & Algorithms** with hands-on experience in developing **REST APIs, low-latency applications**, and **distributed backend systems**. Seeking an opportunity to leverage my skills in **software engineering, problem solving**, and **scalable software design** to contribute to impactful projects.

## EDUCATION

**GMR Institute of Technology** **2023 – 2026**  
*B.Tech in Information Technology, CGPA: 8.48* *Rajam, Andhra Pradesh*

**Andhra Polytechnic** **2020 – 2023**  
*Diploma in Computer Engineering, Percentage: 76.98%* *Kakinada, Andhra Pradesh*

## EXPERIENCE

**Internship** **Jan 2025 – Mar 2025**  
*Code Alpha* *Full Stack Web Developer*

- Developed a social media module with authentication, post creation, likes, and real-time notifications using **React, Node.js**, and **REST APIs**.
- Integrated **WebRTC** and **Socket.io** for real-time video calling, whiteboarding, and screen sharing, improving collaboration efficiency by **40%**.
- Enhanced frontend performance and accessibility using **Tailwind CSS**, React hooks, and asynchronous programming to ensure **scalable software design**.

## PROJECTS

**Dynamic Resume Builder Platform** [↗](#) | MERN Stack, Tailwind CSS, REST API **Feb 2025**

- Built a full-stack resume builder with secure user authentication, dynamic CRUD operations, and RESTful APIs for resume creation and editing.
- Implemented real-time previews and multiple template PDF export features to enhance user experience.
- Designed a fully responsive frontend using Tailwind CSS and React, optimized for both desktop and mobile devices.

**AI SaaS Application with Subscription Billing** [↗](#) | PERN Stack, Neon, AI APIs, Clerk, Stripe **May 2025**

- Developed and deployed a production-ready AI SaaS platform using the PERN stack, integrating Clerk for authentication and Stripe for subscription billing.
- Engineered a scalable backend with Express.js and Neon PostgreSQL (serverless DB), ensuring high availability, performance, and efficient data management.
- Enhanced the user interface with Framer Motion animations and ShadCN/UI components, improving engagement and retention.

**Full Stack AI Course Generator** [↗](#) | Next.js, React, Tailwind CSS, AI APIs **Aug 2025**

- Built an AI-powered course generator integrating Gemini API for dynamic content creation and YouTube API for automatic video chapter generation.
- Developed a responsive frontend with Next.js, React, and TailwindCSS, ensuring seamless navigation and real-time feedback.
- Implemented secure user authentication and personalized dashboards with Clerk, enabling protected and role-based access.
- Optimized frontend performance with server-side rendering (SSR) in Next.js, reducing load time by **30%**.

## SKILLS

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**Programming Languages:** Java, JavaScript, SQL, HTML, CSS

**Core SDE:** Data Structures & Algorithms, Problem Solving, Big-O/Complexity Analysis, Object-Oriented Programming (OOP)

**Frameworks & Libraries:** ReactJS, NodeJS, ExpressJS, Next.js, Tailwind CSS, Bootstrap

**Frontend Tools:** Redux, Framer Motion, ShadCN/UI

**Databases:** MongoDB, PostgreSQL

**API Development:** REST, GraphQL

**Tools & Platforms:** Git, GitHub, Firebase

**Concepts:** Web Development, Backend Development, DBMS, basics of Concurrency/Async I/O

## CERTIFICATIONS

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Full-Stack Web Development – Apna College

Data Structures and Algorithms with Java – Apna College

Core Java – Coursera

Generative AI – Coursera

## ACTIVITIES

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### GSSoC Contributor – GirlScript Summer of Code

2025

- Contributed to open-source projects as part of the GSSoC 2025 program, collaborating with maintainers and gaining real-world development experience.