

# Venkata Sri Sai Ch

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## SUMMARY

Final-year B.Tech Computer Science student with hands-on experience building full-stack and backend systems. Worked on production-grade features involving APIs, databases, concurrency, and cloud deployment. Focused on implementing reliable, efficient solutions and owning end-to-end functionality.

## TECHNICAL SKILLS

**Languages:** Python, Java, JavaScript

**Backend:** Flask, FastAPI, Node.js, Express, REST APIs

**Frontend:** ReactJS, Tailwind CSS

**Databases:** MySQL, PostgreSQL, MongoDB

**DevOps & Infrastructure:** Git, GitHub, Docker, Kubernetes, Linux, GitHub Actions

**AI & GenAI:** LangChain, RAG, MCP (Model Context Protocol), LLM APIs (Groq, Gemini)

**Cloud:** AWS, GCP

## EDUCATION

### Keshav Memorial Institute Of Technology

*Bachelor of Technology, Computer Science – GPA: 8.3/10*

Hyderabad, India

Aug 2022 – May 2026 (Expected)

## EXPERIENCE

### SWE Intern [\[View Certificate\]](#)

Jan 2025 – May 2025

*Summit Horizons Holdings LLC — reporting directly to Chirag Mahapatra*

Remote

- Developed a **full-stack social intelligence platform** (Flask, React, TypeScript, MySQL) with a scalable database schema designed for scraped investor data, and implemented core user features like **OAuth login**.
- Optimized **Twitter API jobs** via multi-threading and batching, reducing runtime by **4x-8x** (from 40 mins to 5-10 mins) and cutting API costs.
- Automated daily **cron jobs** with **GitHub Actions** for real-time tweet/follow change tracking and personalized alerts, boosting product page followers by **40%**.
- Engineered a **scalable LLM-powered tweet classification pipeline** with robust retry/fallback logic to handle API rate limits.
- Integrated **PostHog** and **Slack webhooks** for real-time performance monitoring and developed a **trending users feature** based on follower growth analysis.

### Intern

Dec 2024 – Jan 2025

### Apna Cricket Team [\[View Certificate\]](#)

Remote

- Queried real-time cricket data to assist in building match-specific analytics; developed frontend for AI Allrounder feature using Flask and Streamlit, enabling team recommendations based on match context.

## PROJECTS

### Autonomous Multi-Cloud Incident Analysis Agent

[Link](#)

*FastAPI, Kubernetes, AWS CloudWatch, GitHub Actions, Groq*

- Built an autonomous AI agent that investigates cloud incidents by correlating logs, cluster state, and CI/CD signals to generate data-backed root cause analysis reports.
- Implemented **three MCP servers** to fetch real-time logs, cluster state, and workflow events from Kubernetes, AWS CloudWatch, and GitHub Actions, enabling structured, tool-based evidence gathering.
- Designed concurrent data collection and correlation pipelines to unify cloud logs, cluster health metrics, and CI/CD execution status into a single analysis context with actionable remediation recommendations.

### Feedback Analysis Using GenAI

[Link](#)

*Flask, ReactJS, Deep Learning, NLP*

- Developed a full-stack application that web-scrapes Amazon/Flipkart reviews using Selenium and performs sentiment analysis via a **custom neural network model**.
- Integrated natural language processing (NLP) pipelines including BERT-based keyphrase extraction and review summarization (Hugging Face) to generate actionable insights.

### Music Bridge

[Link](#)

*Python, Flask, ReactJS, Spotify API, YouTube API, yt-dlp*

- Developed a web application that enables users to download Spotify tracks and playlists in both video and audio formats.
- Implemented **batch downloading** with dynamic quality selection using Spotify and YouTube APIs.

### IPL LLM

[Link](#)

*MERN Stack, Flask, GenAI, Web Scraping*

- Built a full-stack IPL analytics platform using MongoDB for scalable storage, featuring **AI-generated match commentary** and interactive statistics comparison pages for player and match analysis.
- Integrated a **RAG-based chatbot** using LangChain and Google Generative AI to handle natural-language IPL queries.

## ACHIEVEMENTS

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- Solved 550+ algorithmic problems on LeetCode.

### UX-WIZ Gamify the Experience Hackathon

Dec 2022 – Jan 2023

*Clan Organization*

Secunderabad, India

- Secured 2nd place with team in the UX-WIZ Gamify the Experience Hackathon competition.
- Designed a Figma prototype for a gamified employee learning application featuring videos, leaderboards, and quizzes.