

SAI CHARAN

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Computer Science and Engineering student specializing in full-stack development, AI agents, and workflow automation. Proven ability to architect web applications, integrate LLMs, and lead technical teams. Passionate about complex algorithms, scalable backend systems, and performance optimization.

Education

Sathyabama Institute of Science and Technology

Bachelor of Engineering in Computer Science and Engineering; CGPA: 8.76/10

Chennai, India

2025 – Expected 2029

Technical Skills

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

Frontend: React, HTML5, CSS3, Tailwind CSS

Backend: Node.js, Express.js, REST APIs

Databases: PostgreSQL, Supabase, MySQL, SQLite

AI & Automation: LLMs, Retrieval-Augmented Generation (RAG), AI Agents, Google Gemini API

Developer Tools: Git, GitHub, Docker, AWS Fundamentals, n8n, Hermes Agent, Antigravity, Figma, Linux

Technical Projects

ResponSync (Rush Hour Hackathon) | *TypeScript, Node.js, React, Supabase, Gemini API*

- Engineered an AI-powered digital twin for predictive disaster response, integrating custom hydrodynamic models to compute surge accumulation and infrastructure failure propagation.
- Architected the backend pipeline utilizing Node.js and Supabase (PostGIS), and integrated the Google Gemini API to power complex simulation logic and flood-aware routing optimizations.

VocalPulse | *TypeScript, OpenAI, Twilio, Node.js*

- Engineered an open-source, AI-powered sales dialer using OpenAI APIs and Twilio to automate outbound calling workflows and process real-time audio streams.
- Architected backend integrations for comprehensive call analytics, reducing manual data entry and optimizing communication system latency.

Autonomous AI Agents | *TypeScript, LLM APIs, n8n, Hermes Agent*

- Built autonomous workflow systems using LLMs, memory architectures, and custom tool-calling endpoints to execute complex, multi-step task automation.
- Integrated advanced operational frameworks like n8n and Hermes Agent to eliminate repetitive task execution and optimize system pipelines.

Achievements

Hackathons: 3rd Place - Aurora Hackathon | Special Mention - Rush Hour | 5th Place - VIT Hackathon 2026 | 4th Place - Hack The Planet

Competitions: Multiple Top-3 finishes in college-level technical events, including two 1st-place awards

Awards: Luminary Award (Recognized as the sole all-rounder in first-year batch for technical and academic excellence)

Leadership & Problem Solving: Team Lead, SIH Internal Selection | Solved 100+ LeetCode DSA problems

Leadership & Community

Workflow Automation Workshop (n8n) | *Instructor*

- Conducted a hands-on workshop demonstrating how to build automated workflows using n8n, integrating APIs and orchestrating complex data pipelines.

WebXplore | *Key Speaker*

- Delivered a keynote session on leveraging AI tools for software development and coding optimization during a 5-day community web development workshop.

Crackathon | *Head Organizer*

- Directed a time-limited password-decoding networking event, managing registration pipelines, promotional assets, and platform configuration.

CodeStorm | *Event Organizer*

- Organized a 7-day C programming workshop in collaboration with faculty, structuring the technical curriculum and hosting interactive daily quizzes.