

Sai Goutham Reddy Sudhireddy

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PROFILE

Portfolio: <https://ssgouthamreddy.netlify.app/>

CS undergrad (2026) with a strong foundation in C++, data structures, algorithms, object-oriented design, and distributed systems. Skilled in building scalable backend architectures using Java, Spring Boot, RESTful APIs, SDLC and AWS services (EC2, S3). Passionate about solving complex engineering challenges by applying AI and modern software practices to develop scalable, reliable, and customer-focused solutions.

EDUCATION

B. Tech (Computer Science Engineering)	Nov- 2022 – May- 2026 (Expected)
Gokaraju Rangaraju Institute of Engineering and Technology, Hyderabad	(CGPA: 9.32/10)

EXPERIENCE

Software Engineering Intern – SoundSpire	Nov'2025 – present (Ongoing)
• Built and optimized production features using Next.js with SSR and component-level optimizations, improving page load times by 30% and boosting Core Web Vitals.	
• Built and deployed backend services using Supabase (PostgreSQL, Auth, Storage) on AWS , optimizing queries to cut API latency by 35% and maintaining 99.9% uptime through automated CI/CD pipelines , logging, and monitoring.	

SKILLS

Programming	C++, Java, Python
Backend & Database	SpringBoot, RESTful APIs, Node.js, MySQL, PostgreSQL, MongoDB, Microservices
Web & Networking	HTML5, CSS3, JavaScript, React.js, TCP/IP, HTTP
Cloud	AWS EC2, S3, AWS Lambda
ML Libraries	Matplotlib, Scikit-learn, TensorFlow
DevOps & Tools	Git, GitHub, CI/CD, Docker, Postman, Linux, Agile (Scrum)
Core CS	Data Structures, Algorithms, System Design, OOP, DBMS, OS, CN, ML, AI

PROJECTS

Career Companion – <i>Gen AI, NLP, Node.js, REST API, Next.js</i>	(Ongoing)
• Built an AI-powered career readiness platform using NLP , Generative AI , and recommendation algorithms to optimize resumes, match job profiles, and simulate mock interviews, boosting candidate success by ~35%	
• Architected a scalable full-stack system with ATS-based analysis, personalized recommendations, and real-time performance dashboards, handling 10k+ users with 2s response time .	

Scalable Backend System - <i>Spring Boot, REST API, JWT, OAuth2, PostgreSQL, Postman</i>	(Sept – 2025) Link
• Designed and built a backend architecture handling 900k+ requests/ month , improving API throughput by 45% and database performance by 40% using indexing and caching.	
• Implemented OAuth2 and JWT based security supporting 300+ concurrent sessions, with a modular multi-tier architecture and 60% JUnit test coverage for production grade reliability and scalability.	

GitHub User Search - <i>React.js, REST API, OAuth</i>	(Aug – 2025) Link
• Built a responsive web app to search and display GitHub profiles with sub-500ms response times , integrating real-time GitHub REST API calls and GitHub/Google OAuth to enhance user experience and streamline authentication.	
• Designed a 60% more efficient search pipeline using debouncing and rate limiting (60 tokens/hour) , improving backend stability by 35% , and boosting API utilization efficiency and developer productivity by 15% .	

ACHIEVEMENTS

- **LeetCode:** <https://leetcode.com/u/ssgoutham/> - Max Rating: 1783 **Top 8% globally**

CERTIFICATIONS

- OCI Generative AI Professional Certification from Oracle (Oct – 2025)
- OCI Data Science Professional Certification from Oracle (Oct – 2025)