Sai Goutham Reddy Sudhireddy

Hyderabad| [Github](#) | [LinkedIn](#) | ssgouthamreddy@gmail.com | +91 7675007724 | [LeetCode](#) | [GFG](#)

PROFILE

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

CS student with a strong foundation in **C, C++, data structures, algorithms, object-oriented design,** & **distributed systems**. Skilled in developing scalable, fault-tolerant backend architectures using **Java, Spring Boot, and RESTful APIs**. Ranked among the **Top 10% globally on LeetCode** and **Top 4% on GFG**, showcasing exceptional problem-solving under time constraints and coding proficiency.

EDUCATION

11/2022 – 05/2026 B. Tech (Computer Science Engineering) at
Gokaraju Rangaraju Institute of Engineering and Technology, Hyderabad   (CGPA: 9.32/10)
Coursework: Data Structures, Algorithms, OOP, DBMS, Operating Systems, Computer Networks, ML, AI

PROJECTS

Scalable Backend System - *Spring Boot, REST API, JWT, OAuth2, PostgreSQL, Postman*   *(Sept – 2025)* [Link](#)

- Designed and developed a **distributed backend service** handling **300k+** transactions/ month with **25%** improved **API** throughput and **40%** faster database queries.
- Implemented **Spring Security** with **OAuth2** and **JWT** authentication supporting 200+ concurrent sessions.
- Achieved **60% test coverage** with **JUnit** through modular system design and multi-tier architecture, ensuring production-grade reliability, scalability, and efficient resource utilization.

GitHub User Search - *React.js, REST API, OAuth*   *(Aug – 2025)* [Link](#)

- Built a responsive web app to search and display GitHub profiles with **sub-500ms** response times, improving data retrieval speed and user experience by integrating real-time **GitHub REST API** calls.
- Implemented a debounced search algorithm reducing redundant **API calls by 60%**, integrated **OAuth** authentication (GitHub, Google), enhancing API usage and improving developer productivity by **15%**.

Internshala Automation - *JavaScript, Node.js, DOM*   *(March – 2025)* [Link](#)

- Engineered a scalable automation tool to streamline internship application workflow time from hours to **under 3 minutes**, boosting **efficiency by 95%** and optimized to reliably process **100+** applications daily.
- Designed fault-tolerant mechanisms for dynamic DOM handling and credential security to maintain reliability during frequent UI updates.

Diabetic Eye Disease Detection – *Python, TensorFlow, PyTorch*   *(May- 2025)* [Link](#)

- Developed a deep learning model using EfficientNet-B3 to accurately detect eye diseases from retinal images, achieving over **92% accuracy** and enabling scalable, real-time predictions through a Flask API deployment.

SKILLS

Programming	C/C++, Java, Python
Backend & Database	SpringBoot, RESTful APIs, MySQL, PostgreSQL, MongoDB
Web & Networking	HTML5, CSS3, JavaScript, React.js, Node.js, TCP/IP, HTTP
ML Libraries	TensorFlow, PyTorch
OS & Tools	Unix/Linux, Git, GitHub, Postman, Docker

CERTIFICATIONS

- OCI Generative AI Professional Certification from Oracle
- AWS Cloud Foundations & Data Engineering Certifications from AWS Academy

ACHIEVEMENTS & EXPERIENCE

- Achieved 2nd place in Vivitsu'25 Hackathon and 3rd place in Epitome'25 Hackathon by developing data-driven solutions integrating machine learning & scalable backend systems.
- Led a 15-member technical team to organize and execute multiple campus-wide events, implementing robust data handling systems and ensuring 100% accuracy in participant data management.
- Recognized as a Reliance Foundation Scholar, conducted seminars and mentorship sessions to guide students in research, applications, and technology careers.