

# Sai Goutham Reddy Sudhireddy

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## PROFILE

GFG: <https://bit.ly/ssgoutham> 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, SDLC

## PROJECTS

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

- Designed and developed a **distributed backend service** handling **600k+** requests/ month with **45%** improved **API throughput** and **40%** faster database queries.
- Implemented **Spring Security** with **OAuth2** and **JWT** authentication supporting **300+** concurrent sessions.
- Achieved **60% JUnit test coverage** through modular, multi-tier architecture and full SDLC implementation, with automated CI/CD deployment using Docker, ensuring production-grade reliability and scalability.

**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%**.

**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.

**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 90%+** 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.

## SKILLS

<b>Programming</b>	C/C++, Java, Python
<b>Backend &amp; Database</b>	SpringBoot, RESTful APIs, MySQL, PostgreSQL, MongoDB
<b>Web &amp; Networking</b>	HTML5, CSS3, JavaScript, React.js, Node.js, TCP/IP, HTTP
<b>ML Libraries</b>	TensorFlow, PyTorch
<b>OS &amp; Tools</b>	Unix/Linux, Git, GitHub, Postman, Docker
<b>Methodologies</b>	SDLC, Agile, Test-Driven Development (TDD)

## CERTIFICATIONS

- OCI Generative AI Professional Certification from Oracle (Oct – 2025)
- AWS Cloud Foundations & Data Engineering Certifications from AWS Academy (Feb – 2025)

## 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.