

GONELLA SIVA SAI SURYA PRAKASH

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EDUCATION

PES University

BTech in Computer Science & Engineering - **CGPA - 8.73** (As of sem-4)

Aug-2023 – Present

Bengaluru, India

Air Force School, ASTE

CBSE Class 10 - **Percentage - 95.33%**

CBSE Class 12 - **Percentage - 93.40%**

May-2010 – Apr-2023

Bengaluru, India

Bengaluru, India

COURSEWORK / SKILLS

- | | | | | |
|----------|---------|--------------|-----------|----------|
| • Python | • C++ | • JavaScript | • MongoDB | • GitHub |
| • C | • MySQL | • ReactJS | • Linux | • Git |

EXPERIENCE

Research Intern

Jun-2025 – Jul-2025

Center for Computer Networks and Cyber Security (CCNCS), PESU

- * Learned software-defined networking (SDN) concepts and gained practical experience with ONOS, mininet, RASA, InfluxDB, and Grafana for real-time monitoring and data visualization.
- * Implemented a RASA-based chatbot integrated with ONOS via REST APIs, enabling efficient real-time access to port and flow statistics and minimizing manual intervention.

PROJECTS

RASA-Driven SDN Tool — ONOS, Atomix, Mininet, RASA, Python

Jun2025 - Ongoing

- * Built a **RASA-powered** conversational assistant enabling real-time monitoring, health checks, and fault detection for distributed SDN controllers via ONOS REST APIs.
- * Simulated SDN networks using **Mininet** and implemented custom RASA actions for automated flow queries and troubleshooting.

SpaceNet-Network Speed Dashboard — Python, Tkinter, Sockets, MongoDB

Jan2025 - Mar2025

- * Built a **space-themed interactive dashboard** to monitor real-time latency, bandwidth, and packet loss using TCP/UDP socket simulation.
- * Stored and visualized metrics using **MongoDB and Matplotlib**, with congestion alerts triggered by threshold logic and displayed in a responsive Tkinter UI.
- * Implemented a **multi-threaded architecture** for simultaneous server handling, data storage, and live graph updates without blocking the GUI.

Personal ChatRoom — Python, Tkinter, UDP Sockets, Threading

Dec2024 - Jan2025

- * Developed a **GUI-based UDP chat application** with real-time messaging capabilities, featuring customizable network settings and cross-platform compatibility using Python socket programming.
- * Implemented **multi-threaded architecture** with responsive UI design including dark/light theme switching, zoom controls, and scrollable message display for enhanced user experience.

Fitzen:A Fitness Tracker Application — HTML, CSS, JavaScript, MongoDB, React

Nov2024 - Feb2025

- * Developed a fitness tracker app using the **MERN stack** for fitness enthusiasts to monitor their activities.
- * Provided users with tips, motivation, and activity tracking via a clean and responsive interface.

Weather & AQI Tracker using APIs — Python, Tkinter, OpenWeatherMap APIs

Nov2023 - Feb2024

- * Built a Tkinter-based app that verifies city names using the **OpenWeatherMap API**.
- * Displays environmental data like **Air Quality Index (AQI)** and detailed weather information.

Personal Calendar — Python, Tkinter, MySQL

Oct2022 - Jan2022

- * Developed a “Social Calendar” application using **Tkinter** for the GUI.
- * Implemented **MySQL** database integration to manage birthday records efficiently.

CERTIFICATIONS & ACHIEVEMENTS

- Prof. CNR Rao Scholarship (Top 40% in 1st Semester, 3rd Semester, 4th Semester - B.Tech)
- Top 20 in Hacknight2024 (PESUECC)
- Labyrinth - 4th position (CodeChef - PESUECC)
- Attended workshops by IIT-Gandhinagar, IISc
- Sqn. Ldr. Arun Sapre Scholarship Award (For achieving maximum marks in PCM subjects in class 11, 2021-22)