GONELLA SIVA SAI SURYA PRAKASH

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in LinkedIn   ⌂ GitHub   </> LeetCode

EDUCATION

PES University	**Aug-2023 – Present**
*BTech in Computer Science & Engineering - **CGPA - 8.73** (As of sem-4)*	*Bengaluru, India*
Air Force School, ASTE	**May-2010 – Apr-2023**
*CBSE Class 10 - **Percentage - 95.33%***	*Bengaluru, India*
*CBSE Class 12 - **Percentage - 93.40%***	*Bengaluru, India*

COURSEWORK / SKILLS

- Python
- C
- C++
- MySQL
- JavaScript
- ReactJS
- MongoDB
- Linux
- GitHub
- 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 alerts triggered displayed in a responsive Tkinter UI.

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.

ACHIEVEMENTS & ACTIVITIES

- Prof. CNR Rao Scholarship *(Top 40% in 1st Semester, 3rd Semester, 4th Semester - B.Tech)*
- Core Member – Equinox (Space Club PESU) | Active Member – CodeChef , Layer8, IEEE Student Branch (at PESU ECC)
- 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)*