

Rishwanth Vallala

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EDUCATION

Vasavi College of Engineering

Bachelor of Engineering in Information Technology

Hyderabad, India

2025 Expected

Sri Chaitanya Junior College

Telangana State Board of Intermediate

Hyderabad, India

2019 – 2021

EXPERIENCE

Embedded Software Intern

Unistring Tech Solutions Pvt. Ltd

Sept 2023 - Jan 2024

Hyderabad, India

- Designed and implemented a client-server application in Python using TCP communication, to manage USB device access on company systems.
- Developed a VID/PID whitelist system for allowing authorized microcontroller connections, while blocking all other USB devices for enhanced data security.
- Created an intuitive interface for server-side management and dynamic client-side updates.
- Deployed the solution to over 50% of company systems, significantly improving data security measures, ensuring background execution with administrative privileges across all systems (Linux and Windows).

PROJECTS

DSAC IT Club Website | *Html, JavaScript, React, NodeJS, Framer*

Jan 2024 – Ongoing

- Leading a 6-member team within the college's Data Structures club to design and develop its official website.
- Playing an active role in the planning, design, and implementation phases, contributing to the overall user experience and functionality.

The AR Visualiser | *Unity, C#, Google AR Core*

Feb 2024 – Ongoing

- Working in collaboration with college professors to develop an educational app using Google AR Core in Unity.
- The AR Visualiser aims to improve the learning experience for students by simulating complex 3D diagrams, circuits, and mechanical structures from various branches.

Glitter - Twitter Clone | *Python, Django, React, MongoDB* | ([Github](#)) ([Hosted](#))

May 2023 – Aug 2023

- Built a fully-featured Twitter clone for inter-college event announcements using Django (Python).
- Achieved a maximum peak of **8,000+ clicks per month**.

Dijkstra's Algorithm Visualizer | *HTML/CSS, JS, Google Maps API* | ([Github](#)) ([Hosted](#))

Feb 2023 – Mar 2023

- Developed an interactive map for visualizing the Dijkstra's algorithm across the Indian map.
- Used by the college professors to help student's understanding of the algorithm through interactive visualization.

Saved Prompts | *Html, JavaScript, Chrome Extension APIs* | ([Github](#)) ([Hosted](#))

Dec 2022 – Jan 2023

- Created a browser extension facilitating seamless organization, and retrieval of High quality ChatGPT prompts
- Published the extension gaining **1000+ users** and a **4.8/5** star review on the Chrome Web Store.

TECHNICAL SKILLS

Languages: Java, Python, C/C++, C#, SQL, JavaScript, HTML/CSS

Frameworks: React, Node.js, Flask, Django, WordPress, Material-UI, FastAPI

Developer Tools: Git, Docker, Google Cloud Platform, Visual Studio, Unity

CERTIFICATIONS

CS50x by Harvard University

Switching, Routing, and Wireless Essentials by NetAcad, Cisco

Programming, Data Structures And Algorithms Using Python by NPTEL

POSITIONS OF RESPONSIBILITY

Web Developer, DSAC (Data Structures Club), VCE

Head of Marketing, Suruchi (Fashion club), VCE