

Shlok Zanwar

shlokzanwar14@gmail.com

+91-9657867002

[shlok.tech](#)
[GitHub](#)

I am an enthusiastic, dedicated, and hardworking person, with a desire to learn and explore the ever-evolving technologies of computer science.

Experience

[ANSYS](#)

Jan 2023 - Present

Commenced a role as a **Software Development Intern** for the Semiconductor Business Unit at Ansys, secured through campus placement. Utilizing my expertise in Python and C++, I am diligently working towards **debugging** and **creating robust code** to drive superior results.

[Integrated active monitoring Pvt Ltd](#)

Jan 2021 - Jan 2023

Software development Intern

React, Python, PostgreSQL

CMS Portal

- CMS is a real-time alert monitoring system that allows multiple operators to monitor remote locations for safety and security purposes.
- Spearheaded the modernization of the CMS platform by upgrading the frontend to **React** and the backend to **FastAPI**, resulting in significant improvements in performance and scalability.
- I **revamped the database schemas** by redesigning and **normalizing** them.
- I designed and Implemented a **custom messaging protocol** using **WebSockets** to handle alerts and events in real-time, **significantly improving** the responsiveness and effectiveness of the CMS platform.

RFID-based Inventory management

- Enhanced the performance of complex **PostgreSQL** queries that extracted data from approximately **500,000 rows**, resulting in a more than **120% reduction in query response time**.
- Constructed user-friendly dashboards and graphical visualizations to present **millions of data points** of inventory stock status in a simple and intuitive manner.

Images Dashboard

- **Architected** the frontend code-base of Images dashboard (CCTV image capture and audit platform), leveraging **Redux** and **ReactJS routing** to provide advanced **state management** and seamless user experiences.
- Created an **efficient algorithm** to access the metadata of **thousands of images** in **O(1) time complexity**.
- Created a streamlined **Ticket Management module**.
- Automated daily reports using **ExcelJs**, resulting in **savings of more than 20 man-hours per day** in manual report creation.

Skills

Data Structures and Algorithms		ReactJS
Web Development	C++	Python
Javascript	Redux	SQL
PostgreSQL	Problem Solving	
Teamwork	NodeJS	

Education

[BTech Computer Science Engineering](#)

Vishwakarma Institute of Information Technology (VIIT)

CGPA - 9.79

06/2019 - 06/2023

Key Projects

[Code Rooms](#)

Sep 2021

- **Architected and developed** Code Rooms, a **learning management system** that enables teachers to create and manage classrooms, assignments, and assessments **with ease**.
- Integrated advanced features, including an **automated test case system** and an in-app PDF viewer, to provide a seamless and user-friendly experience.
- Successfully **deployed** and implemented Code Rooms, currently being **utilized and favored** by both teachers and students in VIIT.
- Built using a tech stack consisting of **ReactJS**, **FastAPI**, **SQL**, **Antd**, and **Redux**.

[Shlok Zanwar Portfolio Website](#)

- This web app serves as a playground for me to constantly **experiment** with and **deploy** new technologies and apps, **expanding my skills and knowledge** in the process.
- Some apps deployed are:-
 - **Binary Tree Visualizations**: - These are UI's to visualize the insert, delete and search operations on Binary Search Tree / Heap.
 - **Pastebin**: - A web application that allows users to upload and share text online.
 - **ToDoApp**: - A well-designed to-do application with features such as drag and drop, and task categorization.