

Vihaan Thatiparthi

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EDUCATION

Indian Institute of Information Technology

Bachelor of Technology in Computer Science

SriCity, AP

2022 – On Going (CGPA-8.59)

PROJECTS

Colosseum | *Next.js, MongoDB, shadCN, Swagger, React, Recharts, GSAP, cursify*

2024 – Present

- Developing a comprehensive SaaS game agnostic E-sports tournament hosting platform, built as part of academic requirements in a team of 5 with a primary focus on a rich and responsive UI.
- Integrated **Role-Based Access Control (RBAC)** on both backend and frontend, and utilized **swaggerUI** for thorough API route testing and documentation.
- Constructed an admin dashboard featuring real-time charts using the **Recharts** library, complete with report functionality and robust admin controls.
- Engineered an engaging landing page employing **GSAP** with scroll-trigger animations to create parallax effects and smooth transitions, enhanced by a dynamic canvas cursor from the **cursify** library.
- Designed and prototyped a monetization feature enabling paid tournaments and sponsor integrations.

OpsManCTF | *Next.js, Python, Git, Steganography*

2024

- Developed a Bhagavad Gita themed CTF designed to encourage juniors to learn Git version control, including cherry-picking and commits.
- Built a self-hosted website featuring an executable (created using Python and PyInstaller) that pushes user progress to a server to display a live leaderboard.
- Implemented the main application with **Next.js**, embedding hidden levels within Git commits in a GitHub repository.
- Engineered 4 levels employing steganography techniques to conceal keys, with artistic clues drawn from Bhagavad Gita episodes.

RMDS Prototype — *React, Next.js, MongoDB, ShadCN, SSE, RBAC, Recharts*

2025

- Developed a prototype that showcases the efficiency of modern front-end frameworks (**React** and **Next.js**) for creating a cutting-edge Remote Monitoring and Diagnostics interface.
- Engineered a **real-time live streaming** feature using **Recharts** to visualize sensor data pushed via **Server-Sent Events (SSE)**.
- Implemented a robust backend that continuously polls MongoDB for sensor updates and leverages SSE to deliver dynamic, real-time data feeds.
- Secured API routes with **Role-Based Access Control (RBAC)**, including endpoints for role creation, actor authorization, and optimized data processing through MongoDB's aggregation pipeline with smart caching strategies.
- Integrated comprehensive **data validation** for backend inputs, ensuring secure and reliable operations throughout the system.
- Utilized **ShadCN UI** components to create a modular and customizable frontend, enforcing role-based access across routes and incorporating caching techniques to improve load times.

POSITIONS OF LEADERSHIP

Student Life Council

2022 – 2023

IIITS

- Organised 2 Cultural Events and 1 Techno-cultural Fest.
- Demonstrated proactive problem-solving and mediation abilities, enhancing the overall student experience and engagement on campus

Domain Lead - Google Developer Groups

2024 – Till Date

Ops

TECHNICAL SKILLS

Languages: JavaScript, TypeScript, Java, python, C, C++, Bash

Frameworks: React, Node.js, Next.JS

Developer Tools: Git, Github, Docker, Kubernetes, NeoVim