






# Sayed Mohammed Nouman

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## Experience

### Tata Institute of Fundamental Research (TIFR)

Mumbai, MH

#### Project Intern

Aug '23 - Present

- Developed an IT inventory management system utilizing the **LAMP stack** to track IT assets, users, intents, purchase orders, and invoices.
- Utilized the **CodeIgniter4** framework in **PHP** for backend development and integrated **Alpine.js** for enhanced frontend interaction.
- Designed and optimized the **database schema** for effective management of IT assets and related data, and dockerized the project for ease of testing and deployment.

### TechNode

Mumbai, MH

#### Web Development Intern

May '23 - Oct '23

- Developed a monitoring dashboard for IoT gateway devices, enhancing real-time visibility of outputs.
- Revamped the frontend using **Next.js** and **Tailwind CSS**, integrating **Jotai** for efficient state management.
- Implemented customizable widgets like line graphs, gauge charts, and cards with variable parameters using **ApexCharts**.
- Incorporated socket events for live data updates and alerts, enhancing user experience using **Socket.io**.
- Configured the production server which used **Nginx** to serve multiple services like the Frontend, Backend and Socket server.

## Projects

### Couponzo

Jun - Aug 2023 Couponzo

- Collaborated in developing **Couponzo**, a headless promotion engine, initiated as a hackathon project.
- Led the development of the **React** frontend, focusing on efficient coupon management and visualization of redemption limits.
- Designed and implemented coupon redeem and verification controllers using **Express** and **MongoDB** for seamless coupon creation and validation.

### Weframe-chat

Jan 2023

- Developed a dynamic web application for real-time chat using **Next.js**, **Tailwind CSS**, and **Socket.io**.
- Implemented user authentication via Firebase and integrated Supabase's PostgreSQL instance with **Prisma** ORM for database management.
- Incorporated WebSocket technology to ensure seamless live updates in the chat interface.

### Sky8-emu.js (A Chip-8 Emulator)

Aug 2021

- Constructed a functional Chip-8 emulator in JavaScript, gaining insights into emulator architecture.
- Created a user-friendly interface enabling the selection of multiple Chip-8 ROMs online.
- Utilized HTML, CSS, and Vanilla JS for a streamlined and engaging user experience.

### Skybot using discord.py

Jun 2021

- Developed a versatile Discord bot enabling Connect-4 gameplay within servers using the discord.py library.
- Enhanced user interaction by allowing custom token selection through emoji reactions.
- Incorporated additional functionality by listening for trigger words to generate quotes from the Zen Quotes API.

## Skills

- **Languages & Frameworks:** JavaScript, Python, C++, Java, React, HTML, CSS, Node.js (Express), Flask, TypeScript, Next.js, Tailwind CSS
- **Databases & Cloud:** SQL (PostgreSQL, MySQL), NoSQL (MongoDB, Firebase), AWS (lightsail, EC2 & Lambda), Supabase, Firebase
- **Tools & Other Technologies:** Git, Bash, Linux, Docker, Selenium, GitHub Actions

## Education

### M.H. Saboo Siddik College of Engineering

Mumbai, MH

Bachelor of Engineering in Information Technology | Current CGPA 8.59

2020-2024

**Coursework:** Data Structures & Algorithms, Data Science, Operating Systems, Databases, Computer Networks

## Achievements

- Secured **1st** place in intra college **Codefeast '22** event conducted by Programmers club.
- Reached semi-finals in **Project Deep Blue season 7** in the License Plate Identification category.
- Received a special category prize for the **Most Innovative Web3 Idea** in the ERR 404 5.0 hackathon.