

Saransh Parikh

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Education

Indian Institute of Technology, Kharagpur

Expected May 2024

Biotechnology and Biochemical Engineering (B.Tech and M.Tech - Dual Degree) (GPA: 8.16 / 10.00)

Kharagpur, West Bengal

- **Relevant Coursework:** Design and Analysis of Algorithms (C++), Programming and Data Structures (C), Probability and Statistics, Theory of OS, Linear Algebra, DL Foundations and Applications, Statistical Foundations for AI and ML

Experience

CloudOptix Pvt. Ltd.

May 2023 – July 2023

Software Development Intern

- Crafted a responsive UI using **React.js** and created the backend infrastructure for the website using **Node.js**
- Retrieved the timestamped data from system via **Telegraf** and imported data in **InfluxDB** for **Time Series** analysis
- Containerised all the dependencies to enhance the scalability and simplified deployment processes through **Docker**
- Devised insightful dashboards for users' data interpretation and enhanced website's analytics capacity via **Grafana**

Bridge Healthcare Pvt. Ltd.

June 2022 – July 2022

Web Development Intern

- Constructed the frontend of the healthcare app via **Figma** and implemented the interactive UI through **QT Creator**
- Used **AWS** services like **Cognito**, **Chime** to stream, **Elastic Beanstalk** to deploy, **Amplify** to host & **Payment API**

Projects

Ecommerce Site | React.js, Node.js, MongoDB, Express, Redux, TypeScript

- Developed a robust Ecommerce app via **MERN** stack along with **TS**, ensuring high performance and maintainability
- Designed **REST APIs** for user auth, product and cart management, enabling seamless client-server communication
- Integrated **Stripe** for secure online transactions and built a **dashboard** for analytics & administrative tasks

Quiz Game | React.js, Node.js, MongoDB, Express.js, Redux

- Implemented a responsive **MERN** app with **Redux** for state management, prioritizing smooth user experiences
- Integrated the **Open Trivia DB** for seamless retrieval of questions, enhancing user engagement and interactivity
- Ensured mobile responsiveness, providing an optimized experience across various devices for seamless usage

Electric Vehicle Market Analysis | Python Notebook

- Deduced that target segment for EV companies should be of age **30-40** in urban areas considering economic factors
- Analysed geographic, demographic & psychographic factors of **100 automobile users** and data from all states & UTs
- Deployed **K-Means Clustering** model and tested out various values of K via **Elbow-plot** method to predict accurately

Competitions

Opensoft GC 2022, IIT Kharagpur

Create a food delivery application to ensure the availability of essential services during the downtime of the data center

- Created a **Microservice** architecture-based app with **Hybrid Cloud** to minimize loss due to unavailable vital services
- Developed frontend via **React.js**, APIs via **Django**, and a **Grafana** dashboard for the visualization of cluster metrics
- Ensured smooth Data Replication and syncing amongst the microservices clusters using Message Broker **RabbitMQ**
- Simplified the scaling of the app via **Kubernetes** as an orchestrator and containerized the microservices via **Docker**

Product Design GC 2023, IIT Kharagpur

Design a hardware product to ensure that the rider wears the helmet all the time and does not ride intoxicatedly

- Led the team to win the **Gold Medal** in the General Championship as team's captain among 20+ competing teams
- Designed helmet module to check if the helmet is worn or not while it is also checked if alcohol is consumed or not
- In case of an accident being detected, the location of the vehicle is sent to close contacts provided by the user

Technical Skills

Languages: C++, C, JavaScript, TypeScript, Python

Technologies: Next.js, React.js, Node.js, Django, Express.js, Prisma, Tailwind, Docker, InfluxDB, MongoDB, SQL, Telegraf