






# 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

## Achievements

- **Expert @ CF, 483 @ GFG** leaderboard, among top **3000** students qualified for **Amazon ML Summer School 2022**
- Ranked **1769** in **Google Kickstart Round C 2022**, **763** in **Codeforces Round 938**, **1406** in **Codeforces Round 916**
- Led the Product Design team to **Gold** in the General Championship as team's captain among 20+ competing teams

## Experience

### CloudOptix Pvt. Ltd.

May 2023 – July 2023

Software Development Intern

- 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**
- Familiarized with **AWS** services like **Cognito** for authorizing, **Chime** for streaming, **Amazon Pay** as payment gateway

## Projects

### Chat App

- Deployed a robust Chat App via **MERN** stack and used **Redux** for state management of user, chat, and message
- Curated **REST APIs** for user auth, message and chat management, send attachments, upload avatar on cloudinary
- Incorporated **Socket.io** for real-time, bidirectional conversation, created an admin **dashboard** using **chart.js**

### Ecommerce Site

- 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, used **Google Firebase OAuth** for user auth
- Integrated **Stripe** for secure online transactions and built an admin **dashboard** for analytics & administrative tasks

### Quiz Game

- Implemented a responsive **JavaScript** 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

## Competitions

### 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

- 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 an accident is detected, the location of the vehicle is sent to close contacts provided by the user in real time

### 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 address downtime risks in essential 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**

## Technical Skills

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

**Technologies:** Node, React, Express, MongoDB, Socket.io, Redux, Next, Prisma, Tailwind, InfluxDB, Docker, Django