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Electrical Engineering
Indian Institute of Technology Bombay

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UG Second Year
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Examination	University	Institute	Year	CPI / %
Graduation	IIT Bombay	IIT Bombay	2021	0.00

SCHOLASTIC ACHIEVEMENTS

- Secured **All India Rank 449** in the **JEE Advanced** amongst 0.2 million candidates (2019)
- Achieved **99.9** percentile in the **JEE Main** amongst about 1.14 million candidates (2019)
- Awarded **Fellowship** in Kishore Vaigyanik Protsahan Yojana (KVPY) SX stream (2019)

POSITIONS OF RESPONSIBILITY

Institute Sports Convener | *Institute Sports Council* (Jun '20-Present)

Among the 2 selected out of 30+ applicants to represent the interests of 10,000+ students

- Member of the web team responsible for maintaining the **PHP** based official website of IITB Sports
- Currently developing the first-ever IIT Bombay Sports App which is a **Progressive Web App**, an installable, cross-platform, fully responsive web application using **MEAN stack** development
- Using **Angular** for frontend and **NodeJS** for backend in the app, with features such as live score of General Championship, court booking, automatic e-certificate generator
- Building an **admin panel** with three levels of access to provide a user-friendly interface to the authorized members of the Sports council for managing and updating the content of the application

PROJECTS

Tinkerers' Laboratory Website (Apr '20-Jul '20)

Seasons of Code | Web and Coding Club, IIT Bombay

- Built an **E-Inventory management** system for Tinkerers' Lab with **2500+** users in **Angular** and Django
- Created an API using Angular's **HTTP Client** and **Django REST framework** for easy communication
- Constructed a **SQLite** database using **Django framework** to store the details of items in the laboratory
- Included an administrator panel to manage inventory items and sent important alerts by email to the admins
- Incorporated **IIT Bombay's Single Sign On** authentication implemented using **OAuth 2.0** for login

Introduction to Electrical Engineering Practice (Aug '19-Oct '19)

Course Project | Guide: Prof. Joseph John

- Built a **5V regulated supply** from AC source using IC 7805, Zener Regulator & step down transformer
- Designed a 7-segment display using **flip-flops** & assembled a DC to AC power inverter circuit using LM555
- Modulated a waveform using MC1496, filtered and sampled a random waveform received using RTL-SDR

Smart Traffic Management System (Apr '20-Jun '20)

Institute Technical Summer Project | Institute Technical Council, IIT Bombay

- Built a **Traffic Management System** which allocates time to each lane based on the number of vehicles
- Type and number of vehicles in each lane which were identified using Image Processing
- Developed a **Virtual Interface** in Django framework which also started and stopped the program

UMIC Website (Jul '20-Aug '20)

Unmesh Mashruwala Innovation Cell, IIT Bombay

- Created a dynamic and **responsive** website to showcase the tech team's work in a concise manner
- Incorporated Javascript elements, CSS animations to give a aesthetic look to the website
- Built a database in **Django** for updating dynamic content on the website such as events, competitions etc.

Real-time Chat Application (Jul '20)

Self Project

- Developed a chat application using **Ionic Angular** for frontend and **ExpressJS** for backend
- Incorporated a feature to create and join private rooms with unique codes using Web Sockets in **SocketIO**
- Deployed the Android installable application as apk with the backend hosted on **Heroku**

EXTRACURRICULAR ACTIVITIES

- Department of Sustainable Social Development, **National Social Service** (2020)
 - Made educational **YouTube videos** on topics related to sustainable social development for middle school students as part of the Tarang subdivision
 - Awarded with a **special mention** for 80 hours of **exemplary** volunteering work
- Completed a certified one-month course for **Data Analytics** conducted by UGAC successfully (2020)
- Successfully conducted 2 major strategy games, which tested entrepreneurial skills of the **300+** participants, managing participants as part of **E-Summit 2020** conducted by E-Cell, IIT Bombay (2020)
- Successfully finished the **12km** long **Cyclathon** organized by Techfest, IIT Bombay (2019)
- Negotiated with educational institutes & publicised Techfest, bringing in a total footfall of **175K+** (2019)