



SAURABH TIWARI



ACADEMIC DETAILS

Year	Degree / Board	Institute	GPA / Marks(%)
---	B.Tech in Civil Engineering	Indian Institute of Technology Delhi	7.28
2020	Maharashtra State Board	St. Paul Junior College, Nagpur	89.54%
2018	CBSE	Sanskar Vidya Sagar, Nagpur	94%

INTERNSHIPS

- **Full Stack Developer (Eduisfun Technologies Pvt. Ltd.)** [June, 2022 - July, 2022] : Redeveloped a **PWA (STEPApp)** which has **15K DAU** using ReactJs and NodeJs. Also developed **MVP** for a religion-centered app in **20 days**. Integrated **astrology API** for daily horoscope and kundli predictions, implemented **Firestore Authentication** for user authorization, and utilized **Cloud Firestore** for data storage.
- **Software Developer (All Things Good, CreatorMon Private Limited)** [May, 2022 - June, 2022] : Implemented React optimization techniques including **React Lazy, Suspense, Memo, and Windowing**, resulting in more than **20% improvement** in Lighthouse performance score. Incorporated **Debouncing and Throttling** to enable efficient search functionality and prompt API results based on user input.
- **Frontend Developer (Scoreplus)** [Jan, 2022 - March, 2022] : Developed projects using Next.js to leverage **server-side rendering**, enhancing SEO capabilities and optimizing image loading. Implemented Tailwind CSS for **inline media queries**, utilized Material-UI (MUI) to leverage **production-ready components**. Deployed projects to Vercel for **dynamic hosting**, ensuring efficient scalability and seamless deployment.

POSITIONS OF RESPONSIBILITY

- **Core Team Member (Tech), BECON (IITD E-Summit)** [June, 2022 - May, 2023] : Developed and managed the **BECON registration portal**, overseeing the successful registration of more than **7000 students**. Implemented a user-friendly interface and database system to streamline the registration process and securely store student data. Created a comprehensive **QR code system and scanner application** for efficient entry management. Launched the **Campus Ambassador website**, attracting over **500 student** & facilitating their engagement as event ambassadors.
- **Technical Coordinator, eDC (Entrepreneurship Development Cell)** [June, 2022 - May, 2023] : Developed and managed the **EDC IIT Delhi website**, showcasing the organization's initiatives, events, and resources. Additionally, designed and implemented an innovative **opportunity portal** that connected startups with talented students, facilitating recruitment & fostering valuable **industry-academia collaborations**.
- **Web Executive, BHM (Board for Hostel Management)** [July, 2021 - May, 2022] : Developed a **comprehensive website** for the Board for Hostel Management (BHM) to enhance communication and facilitate efficient coordination among students, staff, and hostel administration.
- **Web Executive (Economics Club)** [July, 2021 - May, 2022] : Developed a **dynamic and informative website** for the Economics Club of a technical institute, addressing the need for increased access to financial knowledge among students interested in entrepreneurship.

TECHNICAL SKILLS

- **Development : Frontend:** HTML, CSS, JavaScript, JSX, ReactJs, NextJs, Bootstrap, TailwindCSS, MUI, Redux, React-Native, Flutter. **Backend:** NodeJs, ExpressJs, Django. **Database:** MongoDB, MySQL. **Server:** AWS(EC2, Elastic Beanstalk, Lightsail, S3, SES, Certificate Manager), Azure web app, Firebase, Vercel, Netlify, Heroku, GitHub Pages. **Softwares:** GoDaddy, Postman, Github, BitBucket, Figma.
- **Programming Languages :** C, C++, Java, JavaScript, Python. **Machine Learning:** Numpy, Pandas, Matplotlib, Scikit-learn and TensorFlow.

PROJECTS

- **ICNTSD : (Prof. Rajendra S. Dhaka, Dept. of Physics)** [June, 2023 - July 2023] : Developed a **comprehensive website** for the **International Conference** on Carbon Neutral Technology for Sustainable Development and the 2023 Taiwan-India Exchange Workshop on Sustainable Renewable Energy & Smart Energy Storage Technology, incorporating **registration system & abstract submission** to enhance user experience.
- **Deep Learning in Bio-heat transfer (Prof. Sitikantha Roy, Dept. of Applied mechanics)** [Jan, 2022 - April, 2022] : Developed a Physics-Informed Neural Network (PINN) framework with **four hidden layers** for precise analysis of heat transport in biological systems. Successfully validated the accuracy of the PINN by comparing them with a simulation model created using **COMSOL Multiphysics** software.
- **Anagram Finder : (Prof. Amit Kumar, Dept. of Computer Science)** [Jan, 2022- April, 2022] : Made an highly **efficient Anagram finder** for an input string from a given set of vocabulary with duplicates and implemented **Hashing** for storing vocabulary. Used **quadratic probing** for effective collision resolution and concept of **bit-masking** for search and sorting for duplicates in the vocabulary.
- **Organizational Hierarchy : (Prof. Parag Singla, Dept. of Computer Science)** [Jan, 2022 - April, 2022] : Maintained the large database of an Organization. Implemented the organization with the help of **AVL trees** for assisting in access. Insertion and deletion with a time complexity of **O(log N)** and devised algorithms to answer queries like **LCA, hiring and firing employees, printing organization**, etc.

EXTRA CURRICULAR ACTIVITIES

- **Silver Medal, Cricket (IIT Premier League, 2022)** [Feb, 2022 - March, 2022] : Awarded the Silver Medal in Cricket at the IIT Premier League (IITPL) 2022, organized by BSA, for **securing 2nd position** in annual tournament, demonstrating exceptional sportsmanship and teamwork.
- **Mess Committee Member (Board for Hostel Management)** [July, 2021-May, 2022] : Actively participated in **Mess Committee meetings**, to consistently improve the quality of food, menu options, and cleanliness in the kitchen and dining area, ensuring a **satisfactory dining experience**.
- **Elementary & Intermediate Drawing Examination (Directorate Of Art Maharashtra State)** [2014, 2015] : Achieved an outstanding **A grade, the highest grade**, in both the Elementary (2014) & Intermediate (2015), excelling in subjects like Still Life, Memory Drawing, Design & Lettering.



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IIT COURSE

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POSITIONS OF RESPONSIBILITY

- BECON Core Team Member (Tech), eDC, OTH (June, 2022 - May, 2023)
- Coordinator, eDC, OTH (June, 2022 - May, 2023)
- Technical Executive, BHM (July, 2021 - May, 2022)
- Club Executive, Economics Club, CAIC (July, 2021 - May, 2022)

EXTRA CURRICULAR ACTIVITIES

- Mess committee Member, Hostel Committee (July, 2021 - May, 2022)