MAYANK PRATAP SINGH

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EDUCATION

Indian Institute of Technology (BHU), Varanasi   **July 2020 – June 2024**
B.Tech in Mechanical Engineering   *Overall CGPA : 8/10*

SKILLS/INTERESTS

Languages:	C++, Python, SQL, JavaScript.
Web tools and Frameworks:	Git, Github, HTML, CSS JavaScript , ReactJS, NodeJS, ExpressJS, MongoDB.
ComputerFundamentals:	Object Oriented Programming, Operating System, Computer Networking, DBMS.

INTERNSHIP/TRAINING

Software Engineer Intern — Incipient Technologies   **May'23 - Jul'23**

- Worked with the Django development team with Responsibility for bug fixtures and site maintenance.
- Implemented mass newsletter mailing and subscription system by customizing **TinyMCE** to create email templates.
- Added question recommendation system for quiz using **cosine similarity** and NumPy.
- Customized user dashboard for stats and results display integration of **OAuth** social networking API, merged existing Django requests to **Ajax**.
- **Exposure:** *Django, Ajax, TinyMCE, OAuth, NumPy*.

PROJECTS

Food Hut – E Commerce Platform   **Jan'24 - Feb'24**

- Created an ECommerce app which provides user a catalog of products available for purchase in the restaurant.
- Used Express.js and Node.js to build a **RestAPI** that handles data flow between the server and client.
- Implemented a robust user **authentication system** by integrating **JWT** (JSON Web Tokens) and **bcrypt encryption**.
- Implemented cart management, user **authentication**, order history, and checkout using **ReactJs** and **React-Router**.
- **Exposure : HTML, CSS , JavaScript, ReactJS, NodeJS , JWT Tokens, REST APIs.**

Algorithm Visualizer   **Nov'21 - Dec'21**

- Developed a website that helps in visualizing various **Sorting** and **Path Finding** Algorithms.
- Implemented sorting algorithms : **merge, quick, selection, bubble, and insertion** sort for dynamic visualization.
- Utilized Breadth-First Search(BFS) and Dijkstra's Algorithms to dynamically visualize the shortest path on a grid-platform.
- Added several kinds of features such as **swap count**, **time taken** and moreover, blocked the cells of the grid to analyze the results of the algorithm. **Exposure:** *CSS, HTML, JavaScript, Sorting Algorithms, Graph Algorithms*

Split-Wise Web Application   **Oct'22 - Nov'22**

- Built a dynamic **React** app for easy expense splitting among specified individuals.
- Used React components for dynamic rendering of input fields, optimizing scalability and user customization.
- Integrated **React Router** for enhanced UX, enabling seamless navigation and smooth input flow for individual expenses.

ACHIEVEMENT / EXTRACURRICULAR

Contest Achievements

- **Codeforces** Round 895 (Div 3): *Global Rank-493*
- **Specialist** on **Codeforces** Max rating 1434 Handle : **BajrangComder**
- Rated **Knight** on Leetcode with rating of **2016** (among top 2.78 users worldwide). Handle : **BajrangComder**
- Solved more than **1500** problems for various online judges such as **CodeForces, CodeChef** and **Leetcode** etc.

Academic Achievements

- **JEE Main 2020:** Secured a Rank in **top 1** percentile out of **1 Million+** candidates.
- **JEE Advanced 2020:** Secured a AIR(All India Rank) - **4895** Rank the top 1 percentile out of **1 Million+** candidates.

POSITION OF RESPONSIBILITY

Joint General Secretary - Games and Sports Council, IIT BHU   **May'22 - May23**

- Responsible for managing the sports activities of **IIT (BHU)** of more than 7000 students.
- Made the **Financial-Budget** of the Sports Council budgeted for the whole Council, including equipment for 18 different sports, plus all year-round activities, amounted to over **10 Million Rupees.**
- Managed and Designed the flow of events including **Inter-IIT Sports Meet , Spardha(IIT BHU) , Aavhan(IIT Bombay).**

Extra-Curricular Activities

- Won **Silver** in Football at Spardha'23 and Spardha'21 - the annual Sports Fest of **IIT (BHU)**.
- Participated in, **Inter-IIT Sports Meet'22, Spardha'22, Udghosh'21 (IIT Kanpur), and Aavhan'23 (IIT Bombay).**