PRERNA MADHYAN

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Education

Indian Institute of Technology Dhanbad   **July 2019 – May 2024**
Bachelor of Technology in Mining Engineering

Ashok Hall Girls' Higher Secondary School   **April 2018 – April 2020**
CBSE - 12th   *92.8%*

Experience

Leadseeder   **May 2024 – June 2024**
Software Engineer Intern
- **Objective:** To automated LinkedIn tasks, increasing networking efficiency by 40% and engagement by 30%
- Developed a LinkedIn automation tool that optimized networking for 500+ professionals, improving outreach
- Built a Chrome extension to import up to 200 users per session, including search results and group members
- Implemented a scheduler using Agenda.js to automate 100+ invitations/day, profile visits, and messaging sequences
- **Tech Stack** : Express.js, Node.js, MongoDB

Skills Summary

Languages: C++, C, Python, TypeScript
Libraries/Frameworks: ReactJS, XML, HTML, CSS, NodeJS
Tools: Node, Git, GitHub, RestAPI, AWS Cognito
Databases: MySQL, MongoDB
Course Work: Data Structures and Algorithms, DBMS, Operating Systems, Computer Networks, OOPs, OS

Projects

Multithreaded Push-Updates System for Social Media Platform   **Github**
- Designed a multithreaded push-updates mechanism handling 10K+ actions and update feeds efficiently
- Streamlined data structures for wall, feed, & queues, to support updates for **37,700 users** in a **289,003-edge graph**
- Simulated realistic user activities with a user simulator thread and concurrency using 25 push-update and 10 read-post threads

Financial Trading Platform   **Github**
- Designed a financial trading platform featuring a user-friendly interface with an intuitive and responsive design
- Composed robust user **authentication and authorization** and integrated real-time stock market feeds for live data
- Launched a data-driven strategy, analyzing 2M+ trades; insights improved success by **20%** and a reduced risk
- Designed an interactive dashboard to effectively visualize detailed portfolio performance and monitor risk exposure, thereby significantly enhancing the overall user experience and greatly improving decision-making processes

Web3.0 Blockchain App   **Github**
- Created a decentralized Web 3.0 application facilitating secure Ethereum transactions on the blockchain network
- Deployed **Solidity smart contracts** on Ethereum, enhancing security and efficiency of automated transactions
- Integrated MetaMask for secure Ethereum wallet pairing, and optimized code for a **30%** efficiency improvement
- Integrated **React.js and Tailwind CSS** frontend with blockchain for 100% modern UI/UX and seamless experience

Achievements

- Global Rank of 1469 in Leetcode Weekly Contest 411, competing against 32K participants
- **CodeForces**: Max Rating 1129 | **CodeChef**: Max Rating 1562 | **LeetCode**: 350+ Problems, Max Rating 1674
- Advanced to the second round **Myntra - WeForShe Hackathon**, demonstrating strong skills and innovations
- Achieved a top 2.5% ranking in the JEE Mains 2021 examination, standing out among 1.2 million candidates

Position of Responsibility

- Club Coordinator at Artfreaks - The official fine arts club IIT (ISM) Dhanbad (2023-24)
- **Senior Member of Chassis Department, Mechismu**: at MECHISMU - a prestigious technical society of IIT (ISM) Dhanbad
- Participated in over five inter-college debate tournaments, enhancing public speaking skills and cultural connections