Avinash Saroj

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📍 Pratapgarh,Uttar Pradesh   🔗 Porfolio

Technical Skills

Programming Languages — C, Java, JavaScript, Python

Databases — MySQL, MongoDB

Frameworks & Technologies — Node.js, Express.js, React.js, Next.js

Version Control & Tools — Git, GitHub, VSCode, Vercel

Course Work — OOP, DBMS, OS, Data Structures and Algorithms, Computer Networks

Academic Qualification

B-Tech (Computer Science Engineering), *IIIT Sricity* ↗   2020 – 2024
                                                        Chittoor, Andhra Pradesh

12th,   2019 | Prayagraj, Uttar Pradesh
Maharhsi Patanjali Vidya Mandir (M.P.V.M) Ganga Gurukulam

10th, *Swami Janki Sharan(S.J.S.) Public School*   2017 | Amethi, Uttar Pradesh

Projects

FINANCE MATE, *React.js, Node.js, MongoDb, REST API, Axios, CORS* ↗
- Built a dynamic finance tracking application using **React.js** and **Node.js**, providing a responsive and efficient user interface with seamless back-end integration.
- Implemented a **MongoDB** database to manage user financial data effectively, leveraging **Mongoose** for schema management and data validation.
- Incorporated **JWT authentication** for secure user sessions and **RESTful APIs** to facilitate robust and scalable communication between the front-end and back-end systems.

METRO PATH FINDER,
Graphs (Adjacency List), Dijkstra's Algorithm, Priority Queues, Hash Maps, BFS, DFS, A Search Algorithm ↗
- Implemented **Dijkstra's algorithm** to efficiently compute the shortest paths between stations, utilizing a **priority queue** for improved performance in real-time navigation.
- Integrated **Adjacency Lists** to dynamically update and manage station connectivity, ensuring accurate route calculations in response to network changes or delays.
- Used **Binary Search Trees** to handle quick lookups of station data and **Hash Maps** to enable fast access to route information and station details.

Activities and Leadership

IOTA Club,IIIT Sricity, *Core Member*   2022/08 – present
- Spearheaded and coordinated large-scale hackathons and workshops, successfully engaging over 500 participants and driving innovation within the tech community.
- Fostered collaboration and knowledge sharing, enhancing the vibrancy and growth of the club's tech ecosystem.

ENIGMA (Cyber Security Club),IIIT Sricity, *Core Member*   2021/07 – 2022/12
- Contributed to organizing a Capture The Flag (CTF) event, attracting 80+ participants and promoting hands-on learning in cybersecurity.
- Facilitated multiple educational sessions on cybersecurity, impacting over 200 juniors with practical knowledge across various domains.

Interests

- Gym
- Cricket
- Reading