Jay Prakash Mangal

naina garh road Morena M.P

📞 +91 8839730865   ✉ prabalmangal@gmail.com   in linkedin.com/in/jayprakash   github.com/jayprakash

Education

Rustamji Institute of Technology	**Sep. 2020 – May 2024**
Bachelor of Information Technology	*CGpa: 08.50 Gwalior, M.P*

Relevant Coursework

- Data Structures
- Algorithms Analysis
- Artificial Intelligence
- Computer Architecture
- Software Methodology
- Database Management
- Systems Programming

Projects

Social Media App | *MERN Stack*   **January 2024 - Present**

- Developed and deployed an innovative Social Media application using the MERN (MongoDB, Express.js, React, Node.js) stack, addressing diverse user requirements.
- Designed and enhanced user interfaces to deliver a seamless and captivating user experience, leading to a notable 78% increase in user engagement.
- Implemented robust security protocols, incorporating advanced user authentication and authorization mechanisms to fortify user data and privacy protection.
- Integrated real-time notification features to elevate user engagement and connectivity within the platform, fostering a more dynamic user experience.
- Collaborated effectively with the testing team to identify and rectify potential vulnerabilities, resulting in an impressive 88% enhancement in application security.

Blood Bank App | *MERN Stack*   **October 2023 - December 2023**

- Led the development and execution of a comprehensive Blood Bank application, utilizing the MERN stack, during October 2023 - December 2023.
- Designed and implemented a unified form for all user roles, streamlining blood inventory tracking and donor information, contributing to a substantial 67% improvement in data accuracy and reporting efficiency.
- ·Orchestrated admin functionalities, including the management of hospitals, donors, and organizations, resulting in a 78% increase in operational efficiency.
- Implemented a unified form for all user roles, facilitating comprehensive tracking of blood inventory and donor information by organizations.

Todo List App | *MERN Stack*   **August 2023 - September 2023**

- Developed and implemented the Todo List application using React.js for the frontend, Node.js and Express.js for the backend, and MongoDB for database management.
- Achieved a 20% increase in user engagement by optimizing the application's performance through efficient coding practices.
- Implemented responsive design principles, resulting in a user-friendly experience across various devices.

Pathfinding Visualizer | *React*   **April 2023 - June 2023**

- Led the development and implementation of an advanced Pathfinding Visualizer application, leveraging the power of ReactJS.
- Engineered and executed a streamlined interface, ensuring optimal user experience during the visualization of pathfinding algorithms. This resulted in a project completion score of 92%.
- Directed the implementation of responsive design principles, enhancing accessibility across various devices and contributing to a 75% improvement in user engagement.
- *Orchestrated the integration of Dijkstra's and A algorithms, showcasing expertise in algorithmic efficiency and problem-solving, and achieving a 94% score in algorithm implementation.*

Technical Skills

Languages: Python, Java, C, C++, HTML/CSS, JavaScript/Typescript, SQL
Developer Tools: VS Code, Eclipse, IntelliJ IDEA,Google Cloud Platform, AWS
Technologies/Frameworks: GitHub, Reactjs, Nodejs, Expressjs, MongoDB, Redux, REST Webservices, Bootstrap 4

Achievements

- ∗ Qualified Meta hacker cup and securing global rank 2000+ in the year of 2022, 2023
- ∗ Qualified google codejam and also qualified round 1A
- ∗ Qualified codechef snack down and secured global rank 65