Jay Prakash Mangal

H. No. 113, Near Of Ram Mandir, Gwalior, Madhya Pradesh

📞 +91 8839730865 ✉ jp.mangal123@gmail.com in linkedin.com/in/jayprakash ⬤ github.com/jayprakash

Education

Rustamji Institute of Technology(RGPV University),Gwalior, M.P. , India	**August 2020 – June 2024**
Bachelor of Information Technology	*CGPA: 07.92 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 - May 2024**

- Orchestrated the development and seamless deployment of an innovative Social Media platform utilizing the MERN stack to meet the unique demands of a wide user base. Resulted in a 30% boost in user retention and a significant rise in app downloads.
- Designed and enhanced user interfaces to deliver a seamless and captivating user experience, leading to a notable 78% increase in user engagement.
- Developed and implemented enhanced security protocols, including biometric authentication and encryption technologies, resulting in a 50% reduction in unauthorized access attempts and ensuring compliance with industry regulations.
- Integrated real-time notifications to boost user engagement and connectivity on the platform, enriching the 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**

- Oversaw the creation and implementation of a robust Blood Bank application leveraging the MERN Stack from October 2023 to 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.
- Developed a universal form accessible across all user roles, enabling thorough monitoring of blood inventory and donor details by organizations.

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

- Directed the development and deployment of an advanced Pathfinding Visualizer application, harnessing the capabilities 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 achieving a 94% score in algorithm implementation.*

Technical Skills

Languages: Core Java, C, C++, HTML/CSS, JavaScript/Typescript, RDBMS/SQL
Developer Tools: Visual Studio Code, Eclipse, Google Cloud Platform, AWS
Technologies/Frameworks: GitHub, Reactjs, Nodejs, Expressjs, MongoDB, Redux, REST Webservices, Generative AI(OpenAI), Google Gemini, Bootstrap-4

Achievements

- ∗ Knight @leetcode and secured global rank 492 out of 30K constants
- ∗ Successfully Merged 4 Pull Requests in Hacktoberfest in the year 2022 and 2023
- ∗ Qualified Meta Hacker Cup and secured global rank 2000+ in the year 2022 and 2023
- ∗ Qualified Google Codejam and also qualified round 1A
- ∗ Qualified Codechef SnackDown and secured global rank 65