

# JAY PRAKASH MANGAL

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

+91 8839730865

✉ [jp.mangal123@gmail.com](mailto:jp.mangal123@gmail.com)

🌐 [linkedin.com/in/jayprakash](https://www.linkedin.com/in/jayprakash)

🐙 [github.com/jayprakash](https://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

**Supply Chain Management System | *Spring Boot***

Project Link

**January 2025 - Feb 2025**

- Led the development of a scalable Supply Chain Management System using Spring Boot, enhancing operational efficiency by 40%.
- Implemented RESTful APIs for seamless integration of inventory, order management, and logistics modules, improving data accuracy by 30%.
- Optimized database queries using JPA and Hibernate, reducing data retrieval time by 50% and boosting application performance.
- Developed automation features for inventory tracking, reducing manual errors by 60% and increasing workflow productivity.
- Collaborated with cross-functional teams to design user-friendly interfaces, leading to a 25% increase in user adoption.
- Enhanced application security with JWT authentication and role-based access control, achieving 100% compliance with security standards.

**Social Media App | *Spring Boot, React***

Project Link

**January 2024 - May 2024**

- Led the development and deployment of a robust Social Media platform using Spring Boot for the backend and React for the frontend, achieving a 30% boost in user retention and increased app downloads.
- Designed and improved user interfaces to enhance user experience, resulting in a 78% rise in user engagement.
- Implemented advanced security measures, including JWT authentication and encryption, reducing unauthorized access attempts by 50% and ensuring compliance with industry standards.
- Integrated real-time notifications and messaging features, enhancing user connectivity and engagement.
- Worked closely with the testing team to identify and fix security vulnerabilities, achieving an 88% increase in application security.

**Pathfinding Visualizer | *React***

Project Link

**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

- \* Programming Languages: Java, C++
- \* Web Technologies: HTML, CSS, JavaScript, React
- \* Frameworks: Spring Boot, Hibernate
- \* Databases: MySQL, PostgreSQL
- \* Development Tools: Git, Github
- \* Other Skills: Data Structures, Algorithms, Software Development Life Cycle (SDLC), RESTful APIs, Microservices