

# Vaibhav Prakash

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## EDUCATION

- Manipal Institute of Technology [MIT]** Udupi, India  
*Bachelor of Technology - Computer Science; CGPA: 6.8* 2021 -2025(Expected)  
*Courses: Operating Systems, Data Structures, Algorithms, Object Oriented Programming, Computer Networks, Software Engineering, Compiler Design, Database Management*
- Delhi Public School** Ranchi, India  
*Class XII, Percentage: 89* 2021
- Delhi Public School** Ranchi, India  
*Class X, Percentage: 95* 2019

## SKILLS SUMMARY

- Languages:** C, C++,
- Tools:** GIT, Wordpress, Wireshark, tcpdump, GNS-3,
- Web development:** HTML-5, CSS-3, JavaScript, Bootstrap, Django
- Operating System:** Windows, Linux

## PROJECTS

- E-Material Gate Pass (HTML, CSS, JavaScript, Python, Oracle 10g, QR Code Generation):** Developed an automated system for efficient material tracking, using QR-coded gate passes, real-time reporting, and automated record-keeping to reduce errors and enhance operational efficiency.
- Student Attendance Management System (Django, Python, SQL/MySQL, HTML5, CSS3, JavaScript):** Built a scalable and secure attendance management system with real-time reporting and automated tracking using Django's MVC framework.
- CPU Scheduling Algorithm Simulator (HTML, CSS, JavaScript):** Simulated CPU scheduling algorithms to facilitate understanding of operating system behavior and process management techniques.
- Peer-to-Peer File Sharing System (Python, Socket Programming):** Developed using Python socket programming. Description: Created a peer-to-peer file sharing system enabling direct file transfers with custom protocols for efficient file management and communication. Tech Stack: Python, Socket programming, TCP protocols, Network programming.

## EXPERIENCE AND EXTRACURRICULAR

- Sail-RDCIS (Research & Development Centre for Iron and Steel), Ranchi:** Intern, May 2024 - June 2024. Engaged in a comprehensive project focused on enhancing the E-gate Material Pass system to streamline the entry and tracking of materials.
- Vice-Captain, MIT Football Team:** Contributed to team strategies and fitness programs, leading the team to a Winner in the Inter-MAHE competition. Engaged actively in training sessions, mentorship, and game-day preparations, fostering teamwork and competitive spirit among team members.
- OC-TechTatva, MIT Manipal:** Served as a key member of the Organizing Committee for TechTatva, MIT Manipal's technical fest. Managed, hosted.

## ACHIEVEMENTS AND CERTIFICATIONS

- Winner at Inter-Mahe Football Competition

## CERTIFICATIONS

- The Complete 2024 Web Development Bootcamp** - Comprehensive training covering HTML, CSS, JS, Node.js, and React, aimed at building full-stack web development skills. Acquired practical expertise through project-based learning.
- Big Data Modeling and Management** - Developed a deep understanding of big data systems and models, focusing on strategies for effective data management and analysis in large-scale environments.

## ELECTIVES

- Robotics** - Focused on the design and programming of automated systems, this course covered the integration of sensors, actuators, and controllers.
- Energy Conversion Technologies** - Explored advanced methods for converting mechanical and chemical energy into electrical power.