

Manav Singh Gautam

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SKILLS

- **Languages:** C++, JavaScript, C, Java, Python
- **Frameworks:** HTML and CSS, Bootstrap, NodeJS, React
- **Tools/Platforms:** MySQL
- **Soft Skills:** Problem Solving Skills, Project Management, Adaptability, Critical Thinking

INTERNSHIP

Board Infinity – Data Structures & Algorithms in C++ June-july 2024

- Completed a summer internship focused on **Data Structures and Algorithms** using C++.
- Gained hands-on experience with core topics such as **Trees, Graphs, Linked Lists**, and various algorithmic techniques.
- Practiced solving real-world problems involving **sorting, searching**, and optimization.
- Improved logical thinking and **problem-solving abilities** through daily coding assignments and challenges.
- Built a strong foundation in efficient coding practices and time complexity analysis.

PROJECTS

LMS – Library Management System: 2022-2023

- Developed a full-stack library management system to automate book tracking, member registration, and transaction processing.
 - Implemented real-time inventory management and role-based access for Admin, Librarian, and Member roles.
 - Integrated automated fine calculation, reducing overdue tracking errors by 40%.
 - Added dynamic search and filter functionalities, boosting book retrieval speed by 60%.
 - Optimized database queries, enhancing system performance by 30%.
 - Improved security using JWT-based authentication and encrypted transactions.
- Tech:** React, Node.js, MySQL, JWT (for authentication), CSS, HTML

Hotel Booking Site: 2023-2024

- Built a web-based hotel booking platform for users to search, book, and manage reservations.
 - Implemented **real-time availability tracking** and **secure payment integration**.
 - Integrated **user authentication** using JWT for secure access.
 - Optimized backend queries for faster hotel listing and booking retrieval.
 - Added advanced **search filters** (location, price, amenities), enhancing overall user experience.
 - Designed a responsive user interface for seamless performance on desktop and mobile devices.
 - Collaborated with a team to manage version control using Git and GitHub, ensuring smooth development workflow.
- Tech:** React, Node.js, MySQL, JWT (for authentication), CSS, HTML

CERTIFICATES

- Microsoft Certified: Azure Administrator Associate. April 2025
- Dynamic Programming, Greedy Algorithms April 2023
- Programming in C++: A Hands-on Introduction | Coursera February 2024
- Generative AI with Large Language Models | Coursera April 2024

Achievements

- Completed AZ-104 (Azure Administrator Associate) certification.
- 4-star Java coder on HackerRank,.
- Contributed to open-source projects on GitHub.

EDUCATION

- **Lovely Professional University** Punjab, India
Bachelor of Technology - Computer Science and Engineering; CGPA: 8.6 Since August 2020
- **SM Academy** Gopalganj, Bihar
Intermediate; Percentage: 63 % April 2020 - March 2022
- **Divine Public School** Gorakhpur, UP
Matriculation; Percentage: 78% April 2018 - March 2020