

# Manu Raj

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## SKILLS

- **Language:** C, C++, Python, Java, Dart, R
- **Web Development:** HTML, CSS, JavaScript, Bootstrap, REST APIs, NodeJS, ExpressJS, ReactJS
- **Framework:** Flutter, Spring Boot, Shiny, Swing
- **Database:** MySQL, Oracle, MongoDB, Firestore
- **Tools/Platforms:** Firebase, AWS, Excel, Tableau, Docker, Git & GitHub

## PROJECTS

- **E-commerce** November 2024 - December 2024
  - Designed a responsive website with secure role-based authentication, utilized by over 100 users.
  - Implemented product listing, search filters, shopping cart, order tracking features scalable to 10 thousand users.
  - Built RESTful APIs using Node.js and Express, with MongoDB for database management.
  - Technology used:** HTML, CSS, JavaScript, NodeJS, ExpressJS, MongoDB.
- **Contract Farming Application** August 2024 - September 2024
  - Developed a contract farming platform that onboarded over 50 farmers and contractors, facilitating seamless negotiations with role-based authentication.
  - Integrated real-time chat and negotiation features using Firebase, enabling instant communication and data synchronization, which reduced contract finalization time by 40%.
  - Crafted an intuitive UI with well-structured 'Chats' and 'Negotiation' modules, achieving an 85% user satisfaction rate based on feedback from beta testing.
  - Technology used:** Flutter, Firebase, Dart.
- **Sudoku – A Game** June 2024 - July 2024
  - Developed a GUI-based Sudoku game with difficulty levels Easy, Medium and Hard.
  - Feature of visualizer to see how sudoku is solved using backtracking, sign-up/Login, and check high score.
  - Integrated MySQL Database for storing user data and high scores
  - Technology used:** JAVA, MySQL.
- **Olympic Data Explorer** February 2024- March 2024
  - Created an Olympic Data Explorer Dashboard to analyze and visualize Olympic Games data with precision and clarity, providing users with an intuitive and interactive experience for over 1 million data.
  - Features includes Overall Analysis, Country-Wise Analysis, Athlete-Wise Analysis, Player Profiles, and Medal Tally for comprehensive insights like top 10 athletes in each category.
  - Leveraged Python, Advanced Excel, and data visualization libraries to ensure accurate data representation and user-friendly interaction and filter for getting top 10 players from each sports.
  - Technology used:** Python, Excel, Matplotlib, NumPy, Pandas.

## ACHIEVEMENTS

- **LeetCode Global Rating 1541:**  
Showcased exceptional algorithmic proficiency by achieving a global rating of **1483** and solving over **450** challenges on LeetCode.
- **HackerRank 5-Star Gold Badge in C++, Python and SQL.**
- **Secured 11th rank in the Codeathon:**  
Participated and ranked 11th in the Codeathon organized by LPU among 500 participants.
- **Ranked among Dean's top 10% of students at the University.**

## CERTIFICATES

- Cloud Computing by NPTEL October 2024
- Introduction to MongoDB by MongoDB University July 2024
- ChatGPT Advanced Prompt Engineering by Coursera April 2024
- Algorithms of String by Coursera April 2024
- Introduction to Git and GitHub by Google March 2023

## EDUCATION

- **Lovely Professional University** Phagwara, Punjab  
Bachelor of Technology - Computer Science and Engineering; CGPA: **8.45**  
Since August 2022  
**Favourite Courses:** Data Structures Algorithms, Object Oriented Programming
- **Imperial Public School** Gopalganj, Bihar  
Intermediate- Percentage: **94.4%**  
June 2019 - March 2021  
**Favourite Courses:** Mathematics
- **Imperial Public School** Gopalganj, Bihar  
Matriculation- Percentage: **92.2%**  
April 2018 - March 2019