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, Golang
- **Framework:** Flutter, Spring Boot
- **Database:** MySQL, MongoDB, Firestore
- **Tools/Platform:** Firebase, AWS, EXCEL, Tableau, Docker, Git & GitHub, Redis, Kafka, Kubernetes, Jenkins
- **Soft Skill:** Leadership, Problem Solving, Team Player

PROJECTS

- **Journal App – Personal Journal Management Platform** March 2025 – April 2025
  - Developed a scalable backend system for managing personal journal entries, managing 100+ users with secure user authentication, weather integration, and email notifications with role-based access control (RBAC).
  - Integrated MongoDB queries and API performance, reducing data retrieval time by 30%, ensuring faster response times for CRUD operations and smooth backend processing.
  - Implemented robust DevOps practices including Docker, Docker Compose, Jenkins CI/CD pipelines, Git version control, and SonarQube for code quality, ensuring reliable development, testing, and deployment workflows.
  - **Technologies Used:** Java, Spring Boot, MongoDB, Redis, SonarQube, Spring Security, Git, Docker, Jenkins

- **Contract Farming Application** September 2024 – October 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

- **Olympic Data Explorer** February 2024 – March 2024
  - Created an Olympic Data Explorer Dashboard to analyse and visualize Olympic Games data with precision and clarity, providing users with an intuitive and interactive experience for over 1 million data.
  - Visualized data using Matplotlib to create interactive graphical reports, reducing manual log analysis time by 70% and enhancing data-driven decision-making.
  - Optimized data parsing with NumPy & Pandas, achieving 50% improvement in processing speed for large datasets.
  - **Technology used:** Python, Excel, Matplotlib, NumPy, Pandas.

ACHIEVEMENTS

- **LeetCode Global Rating 1541:** achieved global rating of **1483** and solved over **450** problems.
- **HackerRank 5-Star Gold Badge in C++, Python and SQL**.
- **Secured 5th rank in the Codeathon:** ranked **5th** in Codethon organized by LPU among **500** students.
- **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
- 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