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
- **Database:**   MySQL, MongoDB, Firestore
- **Tools/Platform:**   Firebase, AWS, EXCEL, Tableau, Docker, Git & GitHub, Redis, Kafka, Junit, Mockito, Selenium
- **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. Integrated SonarQube for code quality.
  - 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.

- **Ecommerce**   **September 2024 – October 2024**
  - Designed and implemented a full-stack e-commerce application with secure user login/signup, product browsing, cart management, and secure checkout
  - Built a comprehensive admin dashboard to manage products, categories, users, discounts, and orders with role based access control (RBAC) for efficient operations.
  - Built an email notification system for real-time updates on order status changes using Spring Mail, improving user engagement and transparency.
  - **Technology used: Java, Spring Boot, MySQL, Email service**

- **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 **5**th 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