

Muhammad Rafi

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Muhammad-Rafi

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Education

Presidency University

Bangalore,India

B.Tech, Computer Science and Engineering (GPA: 8.37)

Experience

VirtualStaff

Jun 2024 2024 - Present

Software Engineer

Philippines

- Scaled the application to handle millions of daily users, ensuring high performance and reliability.
- Collaborated directly with executive leadership, including the CEO and COO, to refactor the entire payment infrastructure. Designed and implemented an algorithm that increased profitability by over 25%.
- Dockerized all backend APIs using Docker, enabling seamless deployment, consistent environments.

Indian Space Research Organisation

Jan 2024 - April 2024

Unity Developer

Bangalore,India

- Collaborated closely with ISRO's astronaut training experts, resulting in a simulator that closely mirrors the challenges of real-world space missions,docking.
- Engineered a highly immersive astronaut training experience by employing Unity and pioneering 6 Degrees of Freedom (6DoF) technology, resulting in a 30% increase in realism and user engagement.
- Executed UDP for efficient communication, significantly reducing latency and enhancing real-time responsiveness by 20% (27ms)

Quantum Strategies

June 2023-June 2024

Software Engineer

Pennsylvania,United States

- Implemented Hexagonal Architecture principles in the design and development of backend systems using Node.js and Express, promoting modularization and maintainability.
- Collaborated with the frontend team to seamlessly integrate user interfaces with backend functionalities, enhancing overall user experience.
- Designed and implemented CI/CD pipelines to automate testing and deployment of backend APIs, accelerating release cycles and ensuring high code quality for application development.

Freelance

Mar 2020-June 2023

Full Stack Developer,UI-UX Designer

- Built engaging web platforms, including a 3D home builder showcase and a redesigned hotel menu, improving user interaction and boosting engagement by 20%.

Technical Skills

Languages: JavaScript, Java, Python, TypeScript, C,C++ Rust,Go

Frameworks: NodeJS, Express JS, ReactJS,NextJS, Angular JS , Spring Boot, SASS,AXUM,Actix-web

Databases: MongoDB, MySQL,Redis

Concepts: Compiler Design, Operating System, Virtual Memory, Cache Memory, Encryption, Decryption, Artificial Intelligence, Machine Learning, Neural Networks, API, Database Normalization, Agile Methodology, Cloud Computing, Oracle Cloud Infrastructure **Others:** Docker, Kubernetes, Kafka, pub/sub, FrontEnd, Backend, FullStack, Figma, Adobe Photoshop, Canva

Achievements

Hackathon : May 2023

- 24-hour hackathon held at RV Institute of Technology and was a Frontend Developer in creating the web application and managed to secure the top six position.

Hackathon : July 2022

- 24-hour hackathon held at RV Institute of Technology and Management. Built Front-end web application which was responsive adapting to the layout and content dynamically to various screen sizes.

Competitive Programming

- Achieved a 3-star rating on CodeChef, demonstrating proficiency in solving algorithmic problems and programming challenges.