

# 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

### 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-Present

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.
- Played a pivotal role in sprint planning, actively engaging in code reviews, and troubleshooting sessions. This collaborative approach contributed to the team's agility, resulting in a 15% reduction in development cycle times.

### Freelance

Mar 2020-Present

Full Stack Developer,UI-UX Designer

- Developed a comprehensive online platform for home builders drawing 100's daily active user's attention, enabling them to showcase 3D exteriors and floor plans. Enforced an intuitive UI for users to explore projects.
- Revamped the menu presentation for a hotel, creating visually appealing and user-friendly designs.The result was a 20% increase in menu engagement and positive customer feedback regarding the enhanced user experience.

## Projects

### E-commerce App | Next.js, Javascript, MongoDB, Firebase, Stripe, React-Query,Python

- Implemented secure user authentication, real-time updates, and seamless payment processing for a seamless shopping experience along with Chatbot
- Designed and deployed a scalable RESTful API using Typescript
- Implemented a real-time notification feature using WebSocket and Socket.io, enhancing user engagement.

### OtakuWave, Anime Streaming App | React.js, Express.js, Typescript,MongoDB,Firebase

- Conceptualized and developed OtakuWave, an application dedicated to anime streaming, leveraging the MERN stack (MongoDB, Express.js, React, Node.js).
- Implemented features such as user subscriptions, content recommendation algorithms, and real-time chat for a comprehensive user experience.

## 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

**Others:** Docker, FrontEnd, Backend, FullStack, Figma, Adobe Photoshop, Canva

## Achievements

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### **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.