

# Mugesh Rao

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## EXPERIENCE

### Full Stack Developer

Jan 2024 – May 2024

*GrowTo, Chennai*

- Engineered scalable web applications with React and Node.js, enhancing overall app efficiency by 20%.
- Streamlined backend data architecture, integrating essential third-party APIs to reduce response time by 30%.
- Orchestrated deployment on AWS and Google Cloud, optimizing resource allocation and performance.

### Full Stack Developer Intern

Feb 2022 – May 2023

*Chennai Cabs, Chennai*

- Spearheaded the development of a comprehensive cab management system for major contractors, simplifying shift and detail management for users and generating a revenue increase of over 3 lakhs INR per month.
- Enhanced API efficiency and revamped data models, leading to a 25% boost in data accuracy.
- Collaborated on UI/UX design, achieving a 15% rise in user satisfaction and a 20% increase in reach through responsive design.

### Mobile Developer Intern

Nov 2022 – Jan 2023

*The Term Time, Chennai*

- Crafted and refined Android applications, integrating Firebase and implementing real-time features to boost user engagement by 25%.
- Facilitated seamless real-time notifications and chat features, elevating the app's interactivity and responsiveness.

## EDUCATION

### Bachelor of Engineering in Computer Science

Chennai, India

*Jeppiaar Institute for Technology | GPA: 7.8/10*

Nov. 2021 – May 2025

### Higher Secondary Certificate (HSC)

India

*Aurochild International School | Percentage: 86.1%*

2018 – 2020

### Secondary School Leaving Certificate (SSLC)

India

*Aurochild International School | Percentage: 82.6%*

2016 – 2018

## PROJECTS

### P2P Heavy Machinery Rental Platform | React, Node.js, Firebase, MongoDB, AWS, Google Cloud

2024

- Developed a peer-to-peer heavy machinery rental platform for agricultural equipment.
- Developed robust backend services with Node.js and Firebase, facilitating seamless user management for over 1,500 registered users while ensuring secure payment processing across the peer-to-peer heavy machinery rental platform.
- Constructed an interactive frontend utilizing React, which is now utilized by over 15 team members for rapid prototyping; this approach decreased overall development cycle time by 35%.
- Deployed the application using AWS and Google Cloud for improved performance and scalability.

### Insurance DApp | Solidity, Ethereum, MERN

2023

- Developed a decentralized insurance platform utilizing blockchain technology (Solidity).
- Created frontend with React and integrated with smart contracts deployed on Ethereum.
- Implemented user authentication and transaction management via Firebase.

### Recruiter-X | React, Django, MongoDB, TailwindCSS

2023

- Developed an AI-powered resume filtration and job application app to streamline hiring processes.
- Built frontend with React and TailwindCSS, focusing on responsive and user-friendly UI.
- Implemented backend in Django with MongoDB, enabling efficient filtering and job application tracking.

### SAS Store - B2B Marketplace App | Flutter, Firebase, Vite, Google Cloud, shadCN

2023

- Developed a B2B marketplace app to connect sellers and buyers for a seamless trade experience.
- Built frontend with Flutter and integrated Google Cloud for efficient data storage and scalability.

- Ensured real-time updates and high performance using Firebase and Vite.

#### **Grow Guard – Direct Market Access with AI Fertilizer Recommendation** | *iMERN , TensorFlow, APIs* 2023

- Built a mobile app providing direct market access with AI-powered fertilizer recommendations based on crop data.
- Developed backend services using Node.js and integrated TensorFlow for AI model handling.
- Enabled responsive, data-driven user interactions with React Native and MongoDB.

#### **Wildography - Wildlife Tour Package Booking System** | *Flutter, Firebase, Vite, Google Cloud, shadCN* 2022

- Created a booking system for wildlife tour packages with an intuitive user interface built in Flutter.
- Enabled secure payment and data storage using Firebase and Google Cloud.
- Optimized for high performance and smooth user interactions with Vite and shadCN.

### TECHNICAL SKILLS

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**Programming Languages:** JavaScript, Python, C++, TypeScript, Solidity, Java

**Frameworks :** React, Redux, Node.js, Vite, Express, Tailwind CSS, Bootstrap, Material UI, jQuery, Web3, Ether.js, Next.js

**Technologies:** Firebase, Google Cloud, MongoDB Atlas, Nginx, Git, Truffle, Docker

**Tools:** GitHub, Postman, Swagger, Ganache, Etherscan, MetaMask, Visual Studio Code, JIRA, Figma, Photoshop

**Cloud:** AWS (EC2, SNS, S3, Lambda, CloudWatch, RDS), Google Cloud (Cloud Functions, Dialogflow, Maps, Speech, Translate API, Firestore)

**System Design:** High-Level Design, Low-Level Design (LLD), System Design, Architectural Design, System Architecture ,Distributed Systems, REST APIs, Microservices ,

**Databases:** MongoDB, MySQL, Firebase, Realm DB

**Methodologies:** Agile, Kanban, Scrum

### ACHIEVEMENTS

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**Techrothon** | 3rd Place | JEC | Certificate

**INNOTHON'23 – 36 Hr Hackathon** | 1st Place | KCG College | Certificate

**Hackverse'24 – 24 Hr Hackathon** | 2nd Place | SRM | Blockchain Focus

**IDEATHON'24** | 1st Place | St. Peter College | Idea Presentation

### WORKSHOPS

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**IoT Workshop** | JIT College | 2 Days

**Blockchain Workshop** | SRM University | Certificate | 2 Days

**National Satellite Workshop** | Andromeda | Certificate | 3 Days

### INTERESTS & HOBBIES

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**Writing Books:** "Noting to Something" & "The Secret Knowledge"

**Reading Books:** Spiritual & Finance Genres

**Traveling & Exploring:** Nature-focused locations

### VOLUNTEERING

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**YESIST12 Project Expo 2023** | International Project Expo | Graphic Designer

**IEEE Webmaster** | Madras Section SB | Website Developer

**Placement Volunteer** | Placement Cell | Coordinator

**Full Stack Workshop Speaker** | JEC | Speaker

**IEEE Chairperson** | JIT IEEE SB | Chairperson

### CERTIFICATIONS

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**100 Days of Code Bootcamp** | Udemy | Angela Yu | Certificate

**React JS Certification** | Udemy | Edyoda | Certificate