

# Govardhan Reddy Bommineni

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## SUMMARY

Software Engineering student (B.Tech CSE, 2023-2027) with full-stack experience in React, Node.js, and MongoDB, building production applications including a Play Store-published real-estate app and low-latency Telugu AI voice chat platform. Proficient in C, C++, C#, Java, JavaScript, and Python with strong foundations in data structures, algorithms, operating systems, and DBMS. Seeking a Software Engineer role to design, develop, test, and operate reliable cloud-based services at Microsoft.

## EDUCATION

### Bachelor of Technology in Computer Science Engineering

CMR Institute of Technology

Sep 2023 – Jun 2027

Hyderabad, India

- Relevant Coursework: Data Structures & Algorithms, Operating Systems, Database Management Systems, Software Engineering, Machine Learning

## TECHNICAL SKILLS

**Languages:** C, C++, C#, Java, JavaScript, Python, SQL

**Frameworks & Web:** React.js, Node.js, Express.js, Spring Boot, Django, REST APIs

**Mobile Development:** Android (Java), React Native, Expo

**Databases:** MySQL, MongoDB, Firebase

**Cloud & DevOps:** Google Cloud Platform, Git, CI/CD

**ML & Data Science:** TensorFlow, PyTorch, scikit-learn, NumPy, Pandas

**Tools:** Linux/Unix, VS Code, IntelliJ IDEA, Postman, Jira

## EXPERIENCE

### Full-Stack Development Intern

Cognifyz Technologies

Jul 2024 – Aug 2024

Remote/Hyderabad

- Developed full-stack web applications using Node.js, Express.js, and MongoDB with RESTful APIs handling 100+ requests per hour, improving response time and reliability for user workflows.
- Built responsive user interfaces with Bootstrap and modern JavaScript, integrating OAuth authentication and external APIs to enhance user experience and security.
- Implemented user authentication, Redis-based background job processing, and server-side middleware, increasing system scalability and code maintainability for production deployments.

## PROJECTS

### Mobile Real Estate App (HomeZest) | React Native, Expo, Node.js, MongoDB

Oct 2024 – Present

- Built cross-platform real-estate application with property listing, advanced search, and real-time messaging features, successfully deployed to Google Play Store and actively serving users.
- Designed scalable Node.js and Express backend with RESTful APIs, JWT authentication, and MongoDB Atlas cloud database, ensuring secure multi-user access and reliable data storage at scale.
- Integrated Firebase authentication, real-time chat with WebSocket support, push notifications, and Cloudinary image uploads, prioritizing reliability, diagnosability, GDPR compliance, and maintainable code practices.

### Telugu AI Voice Chat | React, Node.js, Google Cloud, WebSockets

Sep 2024 – Nov 2024

- Developed full-stack conversational AI web application for Telugu language with real-time voice and text chat capabilities using OpenAI APIs, WebSocket streaming, and low-latency data pipelines.
- Architected responsive React frontend with glassmorphic UI design and mobile-first approach, integrated Google AdSense for monetization, and optimized for performance across device types.
- Implemented Google Cloud Text-to-Speech pipeline with WebSocket-based streaming to generate instant audio responses, minimizing perceived latency and delivering diagnosable, maintainable service infrastructure.

### Music Streaming Platform | React.js, Node.js, JavaScript, CSS

Nov 2024 – Jan 2025

- Engineered music streaming application supporting 100+ audio files with 99.5% uptime and 500+ simultaneous concurrent users during peak traffic periods through optimized caching and deployment strategies.

- Implemented intelligent caching system reducing load times by 50% and built real-time analytics dashboard to monitor user activity, performance metrics, and system health.
- Deployed on Netlify with auto-scaling backend infrastructure, focusing on production-grade reliability, maintainability, and extensible code architecture for long-term operational support.

## ACHIEVEMENTS

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Competitive Programming

LeetCode Rating: 1854

- Solved 100+ problems including 30+ hard-level problems, strengthening algorithmic thinking and problem-solving skills across data structures and systems design.

### Hackathons & Competitions

- SIH 2024: Designed and developed smart city traffic management system using IoT sensors and real-time data processing as part of team-based solution design and implementation.

### Certifications

- Frontend Development - Infosys Springboard | Python Programming - HackerRank | Data Structures & Algorithms - SmartInterviews | AWS Cloud Practitioner - In Progress

## LEADERSHIP & COMMUNITY

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Technical Lead

Jan 2024 – Present

Agastya Club, CMR Institute of Technology

Hyderabad

- Led 12-member team to organize and deliver technical workshops on algorithms, system design, and full-stack development practices, improving student engagement and technical depth across the program.
- Mentored 15+ junior students on software architecture, Git workflows, code review practices, and debugging methodologies, increasing team productivity and code quality by 30%.

### Open Source & Community

- Active GitHub contributor with 25+ repositories, 200+ commits, and 15+ public stars on community projects. Interests include open-source development, competitive programming, and tech blogging.