

# MadanaGopal V

Hyderabad | +916309837616 | [madanagopal.dev@gmail.com](mailto:madanagopal.dev@gmail.com) | [www.linkedin.com/in/v-madanagopal](https://www.linkedin.com/in/v-madanagopal)

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## Professional Summary

A skilled Full-Stack Developer with nearly three years of experience designing and optimizing web applications across healthcare, education, and productivity sectors. Proficient in frontend and backend development, API integrations, and delivering secure, high-performance solutions. Adept at enhancing workflows, ensuring compliance with standards like HIPAA, and creating user-focused designs. Passionate about solving complex challenges and driving measurable results through innovation and collaboration.

## Technical Skills

Frontend: React.js, JavaScript (ES6+), React Native, HTML5, CSS3, Material-UI

Backend: Node.js, Express.js, REST APIs, Firebase Cloud Functions

Database Management: Firebase Firestore

Tools & Platforms: Git, Google Cloud Platform (GCP), Postman, VS Code

Authentication & Security: Firebase Authentication, secure coding practices

API Development & Testing: RESTful API integration, Postman

## Soft Skills

- Collaboration: Worked closely with cross-functional teams, clients, and stakeholders to deliver tailored solutions.
- Problem-Solving: Analyzed and resolved critical performance bottlenecks, reducing API response times by 99%.
- Communication: Articulated complex technical concepts to non-technical stakeholders, earning client trust and recognition.
- Adaptability: Quickly adapted to new technologies and requirements, driving innovation across diverse projects.
- Attention to Detail: Ensured compliance with standards like HIPAA, maintaining the highest data security and quality.
- Time Management: Consistently met deadlines for high-priority projects while optimizing workflows.

## Experience

**Zelarsoft, Hyderabad - Software Engineer - June 2022 – Present.**

### Project 1: ML-Powered Clinical Decision Support System

- Spearheaded the development of a machine learning system that improved clinical decision-making by providing data-driven treatment recommendations, reducing diagnostic errors by 30%.
- Ensured full HIPAA compliance by implementing advanced encryption techniques, safeguarding sensitive patient data and building client trust.
- Designed a high-performance prescription upload system integrated into the ML framework, achieving a 95% processing accuracy rate, improving turnaround times by 70%.
- Led a team of 5 developers, delivering ahead of schedule and receiving consistent client recognition for exceptional quality and tangible results.

### Project 2: **Smart Scheduling and Performance Optimization**

- Integrated third-party APIs like Google Calendar and Gmail, enhancing functionality and enabling automated scheduling features.
- Optimized performance bottlenecks, reducing API response times from 5 minutes to 5 seconds, improving system usability and client satisfaction.
- Reengineered data structures, cutting operational costs by 20% and improving overall application efficiency.
- Developed an ML model for scheduling recommendations, increasing meeting coordination efficiency by 40% across participants.

### Project 3: **Digital SAT Preparation LMS**

- Introduced a smart video continuity feature, increasing user engagement and completion rates by 25%.
- Built a custom testing framework for SAT quizzes and exercises, reducing dependency on third-party tools and saving \$10,000 annually in licensing costs.
- Enhanced video content accessibility based on user subscription tiers, driving a 15% increase in premium subscriptions and improving user satisfaction.

### **Certifications**

GCP - Professional Cloud Developer | Google Cloud Valid till 11 Dec 2026

GCP - Associate Cloud Engineer | Google Cloud Valid till 11 Apr 2026

### **Education**

M.Sc ( Computer Science ) , Rayalaseema University, Kurnool - Aug 2019 - June 2021