

PRASHANTH GOUD KATEPALLY

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PROFESSIONAL SUMMARY

Full-stack developer passionate about building scalable products from scratch, solving complex problems, and delivering impactful solutions aligned with business goals.

EXPERIENCE

Full Stack Web Developer Intern

Supraja Technologies, Hyderabad, India

- Designed and developed a secure image steganography application using the MERN stack, implementing AES encryption and optimized data storage techniques, ensuring scalability, security, and high system performance in line with modern distributed system standards.
- Built and deployed scalable REST APIs using Node.js and Express, reducing response latency by 30% and significantly improving backend performance.
- Integrated robust user authentication with JWT and OAuth2, enabling secure and fault-tolerant access with zero security breaches reported.
- Collaborated in a fast-paced, agile environment, workingS with cross-functional teams to deliver high-quality features from concept to deployment.

SKILLS

- Languages:** JavaScript (ES6+), Java, Python, C, C++
- Frontend:** React.js, HTML5, CSS3, Tailwind CSS, DOM Manipulation
- Backend:** Node.js, Express.js, REST APIs, GraphQL, gRPC
- Databases:** PostgreSQL, MySQL, MongoDB, Redis, SQL Joins & Query Optimization
- Development Tools:** Vite, NPM, Yarn, Postman, Chrome DevTools
- Testing & QA:** Jest, Mocha, Unit Testing, Integration Testing, Regression Testing
- DevOps & Cloud:** AWS (EC2, S3), Docker, Git, GitHub, Netlify, Vercel
- Concepts:** RESTful Architecture, Microservices, API Gateway, OOP, Agile, Load Balancing, Horizontal Scaling, CAP Theorem

PROJECTS

Coffee with Corporates [Project Link](#)

- Built a scalable ERP-CRM platform with MERN stack, boosting user satisfaction by 30% through UI improvements based on direct feedback.
- Enhanced scalability by implementing microservices for independently scaling inventory and customer management modules in a distributed system.
- Improved backend performance with Redis caching and optimized queries, cutting response times by 40% and supporting high-performance computing.
- Designed RBAC with JWT to ensure secure, fault-tolerant user management following best practices for distributed secure access.
- Used root cause analysis to fix 15 critical bugs, reducing user-reported issues by 30% and increasing system reliability.
- Balanced project constraints in a fast-paced agile environment, optimizing performance and feature delivery.

Netflix GPT [Project Link](#)

- Developed a GPT-powered recommendation system with React, TailwindCSS, and Redux, boosting user engagement by 40% via personalized content and smooth UI/UX.
- Implemented scalable authentication with Firebase, adding role-based access control and seamless login for secure, fault-tolerant access.
- Improved performance by integrating TMDB API with Redux and lazy loading, cutting data fetch time by 40%, initial load by 2 seconds, and increasing session duration by 25%.
- Delivered features rapidly in an agile environment, collaborating closely with cross-disciplinary teams.

Image Steganography Using LSB

- Accelerated an image steganography web app using JavaScript, Node.js, and React, implementing the Least Significant Bit (LSB) technique for efficient data embedding, highlighting innovative technology design.
- Built a robust, scalable server-side architecture in Node.js to efficiently handle up to 1000 concurrent image processing requests, demonstrating experience with distributed systems and high-performance computing.

CERTIFICATIONS

Java Programming - Oracle Academy SmartCoder - SmartInterviews JavaScript - Cisco AWS Cloud Practitioner - AWS Docker Essentials - Docker

EDUCATION

Degree	Institute/Board	CGPA	Year of Passing
B.Tech., IT	Geethanjali College of Engineering and Technology	7.5	2025
Diploma in Civil Engineering	VNR Vignana Jyothi Institute of Engineering	9.3	2022
SSC	Scholar's Model High School	9.8	2019

ACHIEVEMENTS AND PARTICIPATIONS

- Secured **1st Place** in CyberSecurity Ethical Hacking Hackathon conducted by Supraja Technologies.
- Achieved **Branch Rank 232** in ECET, reflecting strong academic performance.
- Contributed to **FLIPKART GRID 5.0**, identifying deployment challenges and suggesting efficiency improvements.