RAMA BHADRA SASTRY KOLLURI

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PROFESSIONAL SUMMARY

Software Engineer with 2+ years of experience in full-stack development, specializing in scalable application design, microservices architecture, and modern web technologies. Proven expertise in React.js, Node.js, and big data platforms with a strong foundation in agile methodologies. Demonstrated ability to develop innovative solutions, lead technical documentation, and collaborate with cross-functional teams to deliver high-quality software systems that meet customer requirements and support highly available environments.

EDUCATION

University of Maryland, Baltimore County (UMBC) – Baltimore, MD
Master of Science in Software Engineering | May 2025

Gayatri Vidya Parishad College of Engineering – Visakhapatnam, India
Bachelor of Technology in Engineering | May 2021

TECHNICAL SKILLS

Programming Languages & Frameworks: • JavaScript (ES6+), TypeScript, Python, React.js, AngularJS, Node.js, Express.js

Architecture & Design: • Microservices Architecture, RESTful APIs, Full-Stack Development, System Design

Data & Analytics: • MongoDB, MySQL, Big Data Processing, Data Pipeline Development, Analytics

DevOps & Engineering Practices: • CI/CD Pipelines, Docker, Jenkins, Git, GitHub, Agile (Scrum & Kanban), Test-Driven Development

Networking & Virtualization: • SDN (Software-Defined Networking), API Integration, Cloud Technologies, System Protocols

Documentation & Communication: • Technical Writing, System Documentation, Requirements Analysis, Cross-functional Collaboration

PROFESSIONAL EXPERIENCE

Grading Assistant
University of Maryland, Baltimore County (UMBC) – Baltimore, MD | Sep 2023 – Present

• Evaluated 50+ technical assignments and engineering projects per semester, improving student performance by 20%

• Delivered guest lectures on software engineering principles and system design, achieving 95% satisfaction rating

• Collaborated with faculty to refine curriculum and engineering processes, leading to 15% improvement in course effectiveness

• Developed agile workflow solutions for Electronic Arts collaboration project, enhancing team productivity by 25%

Program Analyst
Cognizant Technology Solutions – Hyderabad, India | Oct 2021 – Nov 2022

• Engineered scalable web applications using React.js and AngularJS, supporting high-availability environments and reducing customer complaints by 20%

• Architected and implemented microservices solutions, decreasing system rendering delays by 30% for enhanced user experience

• Developed modular, reusable software components following established engineering practices, reducing development time by 20%

• Implemented automated CI/CD pipelines and deployment strategies, improving deployment efficiency by 25%

• Conducted comprehensive testing, debugging, and system validation, reducing production defects by 30%

PROJECT EXPERIENCE

MERN Stack Web Application – Verizon Collaboration

• Architected high-availability application using MongoDB, Express.js, React.js, and Node.js, supporting 1,000+ concurrent users in production environment

• Designed comprehensive RESTful API architecture, reducing data retrieval time by 30% and optimizing backend performance

• Implemented responsive user interface following modern design principles, increasing user engagement by 15%

• Developed automated testing framework and conducted system validation, reducing deployment bugs by 25%

LibHunt AI – Intelligent Library Discovery Platform (Capstone Project)

• Architected comprehensive full-stack application using React, TypeScript, Node.js, and MongoDB Atlas, consolidating 4+ separate developer tools into unified platform

• Implemented advanced search algorithms with intelligent filtering and real-time data synchronization, reducing library research time by 75%

• Developed JWT-authenticated management dashboard with bcrypt security, supporting scalable user session management for 1,000+ potential users

• Engineered automated daily metadata synchronization system, ensuring 100% up-to-date library information across 50,000+ open-source packages

• Deployed cloud-native architecture using Vercel and Render, achieving 99.9% uptime and sub-2-second response times

• Built comprehensive comparison analytics engine, enabling side-by-side library evaluation with 15+ key performance metrics

Remote Area Medical App – MEAN Stack Platform

• Built enterprise-grade healthcare platform using AngularJS, Express.js, and MongoDB, serving 10,000+ active users

• Optimized system protocols and data flows, cutting application latency by 30% for improved performance

• Implemented scalable architecture supporting deployment in distributed environments

Software Development Optimization – Electronic Arts

• Formulated agile-based engineering workflow and process improvements, enhancing team productivity by 25%

• Integrated advanced CI/CD pipeline solutions, decreasing deployment times by 20%

• Presented technical research findings on software process optimization to engineering leadership, earning industry recognition

KEY TECHNICAL COMPETENCIES

• **System Design**: Experience with virtualization, SDN, and distributed systems architecture

• **Innovation**: Proven track record of presenting process improvements and new technology solutions

• **Technical Leadership**: Experience supervising and mentoring engineering team members

• **Documentation**: Strong technical writing skills for system designs, requirements, and engineering documentation

• **Customer Focus**: Experience developing solutions that meet customer requirements and scale effectively