

Shanmuka Sagar Tullimilli

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Portfolio

Summary

Results-driven **MERN Stack Developer** with **2.7 years of experience** building scalable, high-performance applications using **React.js**, **Node.js**, **Express.js**, and **MongoDB**. Proven ability to **reduce API latency by 30%**, optimize database queries, and deliver secure, production-ready features. Strong in **frontend performance**, **REST API design**, and end-to-end solution development with deployments on **Docker**, **CI/CD**, and **AWS**.

Skills

Languages: Python, Java

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

Backend: Node.js, Express.js, REST APIs, JWT Authentication, Middleware Design

Databases: MongoDB, PostgreSQL, Query Optimization, Indexing, Aggregation Framework

DevOps & Deployment: Docker, CI/CD, Linux Server Deployment, AWS, Kubernetes

Tools: Git, GitHub, Postman, VS Code

Education

Vasireddy Venkatadri Institute of Technology, B.Tech in Computer Science June 2019 – April 2023
• CGPA: 8.34/10

Bhashyam Junior College, Intermediate June 2017 – April 2019
• CGPA: 9.8/10

Experience

MERN Full Stack Developer, NIMS March 2025 – Present

- Developed full-stack applications with **React.js**, **Node.js**, **Express.js**, and **MongoDB**, enhancing system stability and data workflows.
- Optimized **REST APIs** and database queries, reducing response time by **30%** through indexing, caching, and refactoring.
- Implemented **JWT authentication**, **RBAC**, and secure API practices to strengthen application security.
- Improved frontend performance with **lazy loading**, **code-splitting**, **Redux optimizations**, and deployed apps via **Docker** and **Nginx** for high reliability.

MERN Full Stack Developer, Snowa Technologies Pvt. Ltd. Jun 2023 – Feb 2025

- Developed responsive interfaces using **React.js**, **Material-UI**, and **Redux**, increasing user engagement by **30%**.
- Built and optimized REST APIs using **Node.js** and **Express.js**, reducing data fetch latency by **25%**.
- Improved MongoDB query efficiency by **20%** through indexing, aggregation, and schema optimization.
- Reduced page load time by **15%** through asset optimization, caching, and frontend performance auditing.
- Collaborated with design, QA, and backend teams to deliver scalable MERN features with minimal defects.

Achievements

- Led a cross-functional team to deliver a high-impact MERN application, completing all milestones ahead of schedule.
- Achieved a **30% improvement in page load speed** via lazy loading, optimized API calls, and reduced bundle size.