VENKATA SAI KRISHNA  Mern Full Stack Developer

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# Summary

* Developed dynamic, responsive, and user-centric web applications using React.js, Node.js, Express.js, and MongoDB, ensuring seamless integration across the MERN stack.
* Architected scalable, high-performing backend systems by designing and implementing RESTful APIs and GraphQL services, optimizing application speed and reliability.
* Implemented CI/CD pipelines using Docker, Jenkins, and GitHub Actions, accelerating deployment processes and enhancing team productivity.
* Collaborated with cross-functional teams to translate complex business requirements into scalable technical solutions, achieving a 30% improvement in project delivery timelines.
* Optimized database performance by designing efficient schemas, indexing, and writing advanced queries in MongoDB and PostgreSQL, reducing response times by 40%.
* Led the development and integration of secure authentication systems using OAuth2, JWT, and Passport.js, ensuring data protection and user privacy.

# Skills

**Languages:** HTML5, CSS3, JavaScript (ES6+), Typescript

**Libraries & Frameworks:** React.js, Redux/Redux Toolkit, Next.js, Material-UI (MUI), Tailwind CSS, Bootstrap

# **UI/UX:** Responsive Design, Cross-Browser Compatibility, Figma/Wireframing, Component-Based Architecture

**API Development:** RESTful APIs, GraphQL, WebSocket

**Authentication & Security:** OAuth2, JWT, Passport.js, Bcrypt

**Database Management:** MongoDB, Mongoose ODM, MySQL, PostgreSQL

#### **Version Control & Collaboration:** Git, GitHub, GitLab, Bitbucket, Agile Methodologies (Scrum, Kanban), Jira, Confluence

**Tools:** Docker, Kubernetes

**CI/CD:** Jenkins, GitHub Actions, GitLab CI/CD

**Cloud Platforms:** AWS (EC2, S3, Lambda, RDS), Azure, GCP

**Hosting:** Vercel, Heroku, Netlify

**Unit Testing:** Jest, Mocha, Chai

**End-to-End Testing:** Cypress, Selenium

**Debugging Tools:** Chrome DevTools, Postman, VSCode Debugger

Experience

### McKinsey & Co. | Mern Full Stack Developer | Apr 2024 – Present

* Architected a scalable SaaS application leveraging the MERN stack (MongoDB, Express.js, React.js, Node.js), supporting over 5,000 simultaneous users while maintaining 99.9% system availability.
* Developed interactive, mobile-friendly front-end components using React.js, Redux Toolkit, and Tailwind CSS, enhancing user engagement and page load speed by 35%.
* Engineered and deployed secure RESTful APIs and GraphQL services to enable efficient client-server communication, reducing system latency by 40%.
* Implemented advanced authentication and authorization workflows using Passport.js, JWT, and OAuth2, ensuring compliance with security standards and protecting user data.
* Streamlined deployment workflows by containerizing microservices with Docker and Kubernetes, resulting in a 50% decrease in system downtime.
* Enhanced database performance by optimizing MongoDB queries and creating well-structured schemas, facilitating real-time analytics and faster data retrieval.
* Scaled infrastructure on AWS by deploying resources like EC2, S3, RDS, and CloudFormation, accommodating a 200% surge in user traffic during peak usage.
* Collaborated with cross-functional teams in an Agile environment, leading sprint ceremonies and ensuring the on-time completion of deliverables.
* Automated build and deployment pipelines using Jenkins and GitHub Actions, reducing deployment cycles by 60% and improving release efficiency.
* Designed dynamic dashboards and visualization tools using React.js and Chart.js, empowering stakeholders to make data-driven decisions with real-time insights.

## CueTech Systems, India | Mern Full Stack Developer Apr 2020 - Jan 2023

* Redesigned an enterprise-level CRM platform using the MERN stack, enhancing scalability and enabling real-time updates for over 10,000 active users.
* Developed a modular front-end architecture using React.js and TypeScript, reducing code redundancy by 40% and boosting maintainability.
* Integrated WebSocket-based real-time notifications and chat features using Node.js and Socket.IO, improving customer response time by 30%.
* Configured MongoDB with replication and sharding to handle high data throughput, achieving 99.95% database availability and performance optimization.
* Implemented advanced caching strategies using Redis and in-memory data stores, reducing API response times by 50%.
* Designed and integrated CI/CD pipelines with GitLab CI/CD and Docker, automating testing, builds, and deployments across multiple environments.
* Migrated legacy APIs to modern RESTful and GraphQL APIs using Express.js and Apollo Server, ensuring seamless backward compatibility.
* Secured the application by implementing advanced encryption techniques and rate-limiting strategies, mitigating DDoS attacks and unauthorized access.
* Optimized the performance of complex database queries and aggregations, reducing overall query execution time by 60%.
* Collaborated with product managers and UI/UX teams to deliver intuitive features, including custom dashboards and real-time analytics, improving user satisfaction by 25%.

# Education

**Master of**

George Mason University, Fairfax, VA

**Bachelor of**

Guru Nanak Institute of Technology, Hyderabad, Telangana