

# Harsha Vardhan Reddy Inukollu

Full-Stack Engineer — React, Node.js, Express.js, Mongo DB

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## Professional Summary

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- **Full-Stack Engineer** with 7+ years of experience designing and developing **scalable, high-performance web applications** in enterprise and specializing in modern front-end architectures while integrating robust backend solutions.
- Expertise in **React, Node.js, and Express.js** for modern web development and scalable front-end architectures.
- Hands-on experience with **GraphQL and RESTful APIs**, improving data retrieval efficiency and system integration for real-time applications.
- Proficient in **state management solutions** such as, **Redux, and Context API** to enhance application maintainability and scalability.
- Skilled in **performance optimization, lazy loading, code splitting, and caching strategies**, reducing load times, and improving UX across web and mobile platforms.
- Strong background in **CI/CD pipelines, Agile methodologies, REST APIs, and full software development lifecycle (SDLC)**, ensuring seamless software delivery.
- Experienced in **web security, authentication (OAuth), and automated testing (TDD, CI/CD)** to enhance application reliability and data protection.
- Adept at implementing **accessibility best practices (WCAG 2.2)**, optimizing web applications for **cross-browser compatibility, and responsive design**.
- Proven ability to **collaborate with cross-functional teams, mentor developers, and drive process improvements**, aligning technical solutions with business objectives.
- Passionate about **code quality, performance optimization, and leveraging modern development best practices** to build scalable, maintainable, and high-performing applications.
- Extensive experience in **MVC architecture**, enabling modular and maintainable front-end development.
- Expertise in **user interface (UI) development, user-centered design, and UX design**, ensuring intuitive and engaging web experiences.
- Skilled in **SaaS application development**, leveraging cloud-native solutions for scalable and resilient software.
- Hands-on with **AJAX, JSON, and Web Services** to facilitate efficient client-server communication.
- Strong knowledge of **database management and command-line (CLI) tools** for effective debugging and deployment.
- Experienced in **problem-solving, troubleshooting, and technical support**, ensuring smooth application performance.
- Proficient in **code review processes, test-driven development (TDD), and best practices for maintainable codebases**.
- Deep understanding of **website performance optimization**, including **load balancing, caching strategies, and real-time data handling**.
- Skilled in **full-stack development**, integrating frontend and backend technologies for seamless user experiences.
- Enthusiastic contributor to **open-source projects**, continuously learning and adopting the latest web technologies.
- Strong **communication skills and project management expertise**, enabling efficient collaboration and delivery of high-quality software solutions.

## Technical Skills

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- **Frontend Technologies:** React, TypeScript, JavaScript (ES6+). HTML/CSS, SASS, Bootstrap, Material UI, Webpack, Babel.
- **Backend Technologies & Databases :** Node JS, Express JS, Mongo DB, SQL
- **State Management:** Redux, Redux Tool Kit, Context API.
- **APIs & Integration:** RESTful APIs, GraphQL, Microservices Communication.
- **Testing & CI/CD:** Jest, Jenkins, GitHub Actions, Postman, TDD.
- **Security & Authentication:** JWT, Web Security Best Practices.
- **Version Control & Collaboration:** Git, GitHub, GitLab, Jira, Slack, Visual Studio, Agile/Scrum
- **Performance Optimization:** Code Splitting, Lazy Loading, Caching Strategies, Web Performance Tuning

## Experience

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### Full Stack Developer

Aug 2024 – Present

#### *Ally Bank*

- Collaborated closely with cross-functional teams, including **product managers** and developers, to align design strategies with **business objectives**, resulting in a 25% improvement in project timelines.
- Developed and maintained the **Compliance Dashboard** used by Fortune 500 companies like Apple and Dell, serving more than 10k users, ensuring high **system integration** and **scalability**.
- Contributed to **end-to-end web development** by building both front-end and backend applications using web technologies such as **HTML5, CSS3, JavaScript, TypeScript, React, Redux, Node.js, Express, MongoDB**, and **AWS EC2**. Utilized **Git** for version control and collaboration.
- Integrated **GraphQL** enabling seamless data querying and front-end integration with **React** enhancing **API performance**.
- Developed comprehensive **unit tests** for both front-end and backend applications, leveraging **Jest** for frontend testing, and **Postman** for backend test suites, ensuring high **code quality, maintainability, and test-driven development TDD** practices.
- Optimized application **performance and responsiveness** by implementing **lazy loading, code splitting, and caching strategies**, resulting in a 30% reduction in load times and enhanced user experience across **web and mobile development** platforms.
- Used **automated testing tools** such as **WAVE** to identify and resolve accessibility issues, ensuring compliance with **WCAG 2.2** guidelines. Added text alternatives, alt text for images, and captions for video content to improve **web accessibility and user engagement**.
- Collaborated in **agile development** environments, participating in **sprint planning**, backlog refinement, and ensuring that acceptance criteria were met, contributing to continuous **process improvement**.

### Senior Software Engineer

Jun 2022 – May 2023

#### *Infinite Computer Solutions*

- Designed and developed **modular frontend applications** using **React JS** and **Tailwind**, enhancing **UI/UX responsiveness** and increasing **user engagement by 35%**.
- Led **frontend performance optimization** by implementing **lazy loading, code splitting, and caching**, reducing page load times by **40%** and improving web responsiveness.
- Migrated legacy UI components to **Angular 9**, improving application **scalability** and reducing **defects by 30%**.
- Implemented **secure authentication** using **JWT**, strengthening **web security** and reducing unauthorized access attempts by **95%**.
- Developed **interactive map-based features** using **Google Maps API and Angular Google Maps**, enhancing geolocation functionality for **50,000+ users**.
- Spearheaded **code reviews and UI/UX refinements**, improving **code quality** and reducing technical debt by **20%** through **consistent design patterns and best practices**.
- Automated **CI/CD workflows** for frontend deployments using **Jenkins**, accelerating **release cycles by 50%** and improving **frontend stability**.

- Optimized frontend **state management** using **Redux**, improving application **reliability** and reducing **state inconsistencies** by **30%**.

## Senior Software Engineer

Jul 2020 – Jun 2022

### ADP

- Develop User Interface using **HTML5, CSS3, JavaScript, TypeScript** and **React JS, ES6**.
- Develop Single Page Application using **React JS**.
- Utilized advanced web development technologies such as React, Redux, Node.js, Express.js, MongoDB, and ECMAScript 6.
- Contributed to Verizon Database Self-Service (DBSS) Team for network and Customer Relationship Management projects.
- Managed incident and problem resolution activities for personal and third-party interface designs.
- Developed high-volume, scalable web frontends requiring responsive designs.
- Took ownership of the application, using Jira for requirement tracking and GitHub/GitLab for version control.
- Implemented Agile and Scrum methodologies to streamline development processes and reduce delivery timelines.
- Upgraded React and React-Router versions for enhanced performance and usability.
- Migrated class-based components to functional components and introduced hooks for better code optimization.
- Made use of **React JS** components, Forms, Events, Keys, routing concepts and **React** Hooks.
- Used various predefined components from **NPM, PNPM**.
- Unit test React components using **JEST** and **Enzyme**.
- Strong understanding of **Node.JS** for server-side development and building scalable web applications.
- Develop the web pages and make sure they comply with **Accessibility** standards.
- Used **JIRA** for user stories.
- Developed responsive and user-friendly web applications using **ReactJS and Node.JS**.
- Validate the Request/Response object using **Postman** and **GQL Playground**.
- Performed cross browser testing by checking the application compatibility.
- Worked with **QA team** in fixing **bugs and issues**.
- Build and deployed applications on development, Test and UAT environments using Jenkins.
- Using **Git** as a version control and **GitHub** for git repositories.
- Actively participate in agile meetings, guild meetings and update the status using confluence.

## Software Engineer

Jun 2017 – Jul 2020

### FedEx

- Developed and maintained **web applications** using **Angular 7**, implementing **component-based architecture** to enhance **code reusability** and reduce **development time** by **30%**.
- Led the adoption and implementation of solutions, improving **web security** and reducing **authentication errors** by **40%**.
- Designed and developed interactive **mock-ups and wireframes** for new features, conducting **user feedback sessions** to align UI/UX with **customer needs**, increasing **feature adoption** by **25%**.
- Built cross-platform **mobile applications** using **Material UI and React Js**, integrating **offline caching** and **push notifications**, enhancing **user engagement** by **35%**.
- Implemented **responsive design** principles, ensuring cross-device compatibility, and improving mobile web performance by **30%**.
- Optimized frontend **performance and load times** using **lazy loading, efficient asset management, and code splitting**, reducing **page load speeds** by **25%**.
- Enhanced **web accessibility** by following **WCAG 2.2 guidelines**, adding **ARIA roles, keyboard navigation**, and ensuring compliance, improving accessibility scores by **50%**.
- Implemented **automated testing** with **Jasmine, Karma**, and achieving **85% test coverage** and reducing frontend production bugs by **30%**.
- Actively participated in **Agile Scrum** methodologies, leading **sprint planning**, backlog grooming, and conducting **code reviews**, improving team velocity by **20%**.

## Education

University of Central Missouri

Lee's Summit, MO, USA

*Master Of Science (Computer Science)*