ASRITHA VEMIREDDY

Full Stack Developer | React, Node.js, AWS | UI/UX | Front-End Developer

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SUMMARY

Results-driven Full Stack Developer with **5+ years of hands-on experience** across professional and academic settings, building scalable, secure, and user-centric web applications across healthcare and fintech domains. Highly proficient in modern JavaScript frameworks including **React**, **Angular (v9 & v12)**, and **TypeScript**, with proven expertise in designing and optimizing full-stack solutions using **Node.js**, **Spring Boot**, and **REST/GraphQL APIs**. Specialized in creating responsive front-end architectures, enhancing performance, and ensuring compliance with standards such as **HIPAA** and **WCAG 2.1**. Skilled in CI/CD automation with **GitHub Actions** and **Jenkins**, cloud deployments on **Azure AKS**, and containerization using **Docker**. Adept at collaborating with cross-functional teams, mentoring junior developers, and driving high-quality, testable, and maintainable code with a focus on usability and performance.

SKILLS

Programming Languages: JavaScript (ES6+), TypeScript, Java, Node.js
Frontend Technologies: React (v16+ & v17+), Redux Toolkit, React Query, React Hooks, Context API, Angular (v9, v12), RxJS, NgRx, Angular Material, TailwindCSS, CSS3, HTML5, Kony Visualizer
Backend Technologies & Frameworks: Spring Boot, Express.js, Node.js, RESTful APIs, GraphQL, Microservices architecture, Apache Kafka
Authentication & Security: OAuth 2.0, JWT, AWS Cognito, Azure Active Directory, HIPAA Compliance, Spring Security, Input Validation
Databases: MongoDB, DynamoDB, PostgreSQL, MySQL
Testing & Quality Assurance: Jest, React Testing Library, Jasmine, Karma, Postman, Unit & Integration Testing, Frontend Test Coverage
DevOps & CI/CD: GitHub Actions, Jenkins, Docker, Azure Kubernetes Service (AKS), Automated Build & Deployment Pipelines
Monitoring & Analytics: Azure Monitor, Application Insights, Grafana
Development Tools & Methodologies: VS Code, Eclipse, Git, Jira, Agile/Scrum

PROFESSIONAL EXPERIENCE

Full Stack Engineer   June 2024 - Present
CDX DIAGNOSTICS   New York, USA

- Led the development of complex front-end applications using **React (v17+)**, **TypeScript**, and **TailwindCSS**, delivering intuitive interfaces for AI-powered diagnostic tools used by medical professionals.
- Enhanced front-end architecture with modular, reusable components and advanced state management using **Redux Toolkit** and **React Query**, improving application scalability and data handling efficiency.
- Developed back-end microservices in **Node.js** and **Spring Boot**, integrating with diagnostic data pipelines to support real-time analytics and reporting features.
- Designed and implemented secure API endpoints with robust authentication and authorization protocols using **OAuth 2.0** and **JWT**, maintaining compliance with HIPAA and industry standards.
- Collaborated closely with cross-disciplinary teams, including data scientists and solution architects, to translate clinical requirements into performant, user-centric software solutions.
- Improved front-end performance using code splitting, memoization, and optimized API calls, reducing page load times by 40% and enhancing user experience.
- Automated CI/CD workflows with **GitHub Actions** and managed containerized deployments using **Azure Kubernetes Service (AKS)** for seamless production rollouts.
- Instituted comprehensive unit and integration testing practices using **Jest**, **React Testing Library**, and **Postman**, achieving over 95% test coverage and minimizing defects in production releases.
- Mentored junior developers and led code review sessions, fostering best practices and elevating overall code quality across the engineering team.

Associate Full Stack Engineer   Dec 2021 - Sep 2023
CDX DIAGNOSTICS   Hyderabad, India

- Developed and enhanced dynamic, user-friendly web applications primarily using **Angular (versions 9 and 12)** and **React**, delivering responsive and accessible interfaces tailored for healthcare diagnostics.
- Led front-end architecture redesign using **Angular's** component-based structure, **RxJS** for reactive programming, and **NgRx** for state management, improving maintainability and performance.
- Integrated complex UI features such as **interactive diagnostic report builders**, filterable data tables, and calendar modules, **improving clinician workflow** efficiency by 40%.
- Optimized frontend performance through **lazy loading**, **AOT compilation**, and **OnPush** change detection in Angular applications, reducing load times by 35%.

- Developed and consumed secure **REST APIs** using **Node.js** and **Spring Boot** backend services, ensuring efficient data handling and real-time updates.
- Implemented authentication and authorization using **AWS Cognito**, **JWT**, and **Azure Active Directory**, ensuring HIPAA-compliant data security across applications.
- Maintained unit and integration tests using **Jest**, **Karma**, and **Jasmine**, achieving over 90% test coverage and reducing post-release defects.

Front-End Developer
Aug 2020 - Dec 2021

TEMENOS
Hyderabad, India

- Built and maintained enterprise-level, responsive UI components for digital banking platforms using **JavaScript**, **React**, and **Kony Visualizer**, supporting over **100,000 global users**.
- Collaborated with **UX/UI** designers and backend engineers to deliver user-centric front-end solutions, improving customer satisfaction scores by 20%.
- Implemented **React Hooks**, **Redux**, and **Context API** to enhance state management, reduce code duplication, and improve maintainability across large-scale applications.
- Ensured **WCAG 2.1** accessibility compliance and internationalization **(i18n) support**, enabling deployment to 10+ international markets and improving global usability.
- Optimized **UI performance** through lazy loading, memorization, and code splitting, resulting in a 35% reduction in load times on key banking workflows.
- Led **cross-browser testing**, **regression checks**, and **device compatibility validation**, reducing production defects by 30% across quarterly releases.
- Developed secure, **OAuth 2.0-enabled** front-end integrations with backend **REST APIs**, ensuring safe user sessions and safeguarding financial transaction data.
- Contributed to **CI/CD** pipelines using **Jenkins**, enhancing frontend build quality and reducing deployment times from 45 to 27 minutes.
- Maintained 90%+ **frontend test** coverage using **Jest**, **React** Testing Library, and **Postman**, ensuring stable feature delivery and minimized regression bugs.
- Partnered with **QA**, **backend**, and **product** teams in agile ceremonies to streamline feature rollouts and align development with business goals.

EDUCATION

PACE UNIVERSITY – New York, USA

    M.S. Computer Information Systems
GPA: 3.97

AMRITHA SCHOOL OF ENGINEERING – Coimbatore, India

    B.Tech. Computer Science Engineering