Jagadeep Avula

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Summary

Experienced Full Stack Developer with 5+ years specializing in frontend technologies including React and TypeScript with extensive AWS infrastructure experience. Proven track record developing scalable, responsive applications with strong emphasis on UI/UX and test-driven development. Notable achievements include engineering UI components that improved user engagement by 40% and implementing front-end tests that reduced post-release bugs by 65%. Skilled in collaborating with cross-functional teams and mentoring junior developers while staying current with emerging technologies.

Skills

Programming Languages: Java (4+ years), JavaScript, TypeScript, Python
Frontend Technologies: React, Redux, HTML5, CSS3, SASS, Tailwind CSS, Responsive Design
Testing: Jest, React Testing Library, Selenium, JUnit, Cypress, UI/Integration Testing
Backend & DevOps: Node.js, RESTful APIs, AWS (EC2, S3, Lambda), Linux, Docker
CI/CD Tools: Git, GitHub Actions, Jenkins, Jira, Confluence, Agile Methodologies
Database: MySQL, PostgreSQL, MongoDB, Firebase, Vector DB , Supabase, ChromaDB
Architecture & Design: Microservices, Component-Based Architecture, Design Systems
Development Practices: Test-Driven Development, Code Reviews, CI/CD, Agile/Scrum

Work Experience

Software Developer

One Click Immigration Pvt. Ltd| California, USA | Dec 2024 - Present

- Building a PHP/Laravel-based interview preparation platform with an integrated AI agent that delivers expert matches with 85%+ relevancy scores based on semantic analysis
- Engineering a vector database system using Supabase DB that reduces expert search time by 70% compared to traditional SQL queries while improving match quality
- Developing a responsive real-time chat interface connecting PHP frontend to Python backend services through RESTful APIs, processing user requests in under 2 seconds
- Implementing UI component tests using Selenium and Jest that increase test coverage by 72%, enabling confident integration of frontend and AI services
- Creating a scalable microservice architecture on AWS handling 200+ concurrent users with separate PHP and Python components, enabling independent deployment and maintenance
- Mentoring 2 junior developers on React best practices and AWS infrastructure, improving team productivity and code quality standards

Software Developer

MakeitMVP | California, USA | Jun 2024 – Nov 2024

- Implemented responsive React frontend with TypeScript and SASS, improving mobile UX 35% and initial load times 25% across devices
- Created reusable UI component library that standardized styling across the application, reducing development time for new features by 40%
- Engineered quiz-based user matching system with React and Redux, improving user engagement 40% through intuitive interface design
- Developed comprehensive Jest and React Testing Library test suites covering 85% of frontend code, reducing regression bugs by 60%
- Collaborated closely with UX designers to translate mockups into high-quality, pixel-perfect components
- Integrated ChatGPT API features using AWS Lambda functions for personalized roadmap with goals, increasing user satisfaction rates by 30%

Full Stack Developer

Amerifab International Inc | North Carolina, USA | Aug 2023 - Dec 2023

- Led a cross-functional team of 5 members to implement a production floor monitoring dashboard using React, TypeScript, and Java backend services
- Designed and developed a responsive UI architecture that improved workflow visualization and reduced system training time by 65%
- Optimized development workflow on Linux environments with GitHub Actions for CI/CD pipeline that automated testing and deployment processes
- Enhanced UI responsiveness by 30% using React component optimization techniques, resulting in more engaging user experience
- Collaborated with backend developers to design RESTful API contracts for efficient frontend-backend communication
- Increased system reliability by 50% by leveraging AWS services (EC2, Lambda, SQS) for robust infrastructure, supporting distributed system architecture

Software Developer

Skela Technologies | Chennai, India | Apr 2020 - Mar 2021

- Developed Java-based web applications with responsive frontend using React and TypeScript
- Created reusable UI components and implemented CSS preprocessing with SASS to maintain consistent design language
- Built comprehensive test suites using Selenium, Jest and React Testing Library, achieving 80% test coverage for frontend code
- Integrated frontend applications with Java RESTful APIs, ensuring seamless data flow between client and server
- Utilized AWS services (S3 for static hosting, CloudFront for CDN) to optimize frontend performance and user experience
- Established frontend performance metrics and monitoring on Linux servers, resulting in 40% improvement in load times

Software Developer

Slarity | Chennai, India | Dec 2018 - Mar 2020

- Implemented a custom caching mechanism in JavaScript and Java backend services, reducing API response time by 30%
- Developed responsive web applications using React and modern JavaScript, reducing load times by 40%
- Created UI component library used across multiple projects, ensuring consistent UX and accelerating development
- Improved frontend testing coverage using Selenium from 20% to 75%, significantly reducing UI bugs in production
- Enhanced brand visibility and user engagement by 50% by implementing responsive designs and animations using React and Framer Motion
- Designed and implemented AWS-based deployment pipelines for Linux environments, improving release reliability by 45%

Projects

Interview Preparation Platform (One Click Immigration)

- Designed and developed a responsive frontend for an AI-powered interview preparation platform using React and TypeScript
- Implemented real-time chat functionality with WebSockets to facilitate seamless communication between users and AI system
- Created comprehensive component tests using Jest and React Testing Library, ensuring UI reliability across multiple devices and browsers

Visualization Dashboard (Carbon Copies)

- Developed an interactive data visualization dashboard using React, TypeScript, and D3.js for complex data representation
- Created responsive, accessible UI components that maintained functionality across desktop, tablet, and mobile devices
- Implemented comprehensive front-end testing suite with 85% code coverage, ensuring cross-browser compatibility

Portfolio Website

- Designed and developed a personal portfolio using React, TypeScript, and Tailwind CSS
- Implemented responsive design with animations powered by Framer Motion
- Applied test-driven development practices throughout the project lifecycle, ensuring responsive functionality across devices

Audio to Text Transcription

- Developed a React-based UI for audio file upload and transcription using Assembly AI API
- Implemented comprehensive error handling and loading states for seamless user experience
- Created responsive interface that provides accurate text transcripts for accessibility purposes

Certifications

- AWS Certified Solutions Architect | Amazon Web Services

Education

- **Masters in Engineering, Computer Science** | Oregon State University | Corvallis, Oregon
- **Bachelors of Engineering, Computer Science** | Anna University (Rajalakshmi Engineering College) | Chennai, India