

Hrushikesh Aavula

Senior Software Engineer

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Professional Summary

Full-Stack Developer with 4+ years of experience building scalable web applications using React.js, Node.js, PostgreSQL, and AWS. Skilled in developing intuitive UIs and optimizing backend performance. Passionate about delivering high-quality, user-centric applications focusing on performance and scalability.

Skills

Frontend - UI: HTML, CSS, JavaScript, TypeScript, React.js, Redux, Next.js

Backend Development - RESTful APIs: Node.js (Express.js)

Databases: PostgreSQL, MongoDB

DevOps: AWS, Docker

GIS: GeoServer, OpenLayers

Project Management: Jira, Azure DevOps, Agile, Scrum

Experience

Senior Software Engineer

Feb 2023 – Present

TRC Companies, Inc.

- Developed full-stack applications using React.js, Redux, TanStack Query, TypeScript, and Node.js.
- Designed and developed scalable backend services with Node.js for efficient data management, integrating PostgreSQL for data storage.
- Built responsive UI components and optimized user interactions with React.
- Contributed to the development and implementation of a microservices architecture, enhancing scalability and maintainability.

Associate Consultant

Apr 2022 – Feb 2023

Neudesic, an IBM Company

- Delivered full-stack solutions with React.js, Redux, and TypeScript for enterprise-level web applications.
- Collaborated with cross-functional teams to enhance UI/UX, optimizing user experience and performance.
- Contributed to backend development with various technologies to support business logic and data processing.

Web Developer (Freelance + Intern)

Dec 2020 – Mar 2022

iMapAnalytica

- Built responsive, user-friendly front-end interfaces using React.js, Redux, and React Query.
- Developed backend services with Node.js, Express, and PostgreSQL for efficient data management.
- Initially joined as an intern, later transitioned to web developer based on strong performance.
- Integrated GIS mapping features using OpenLayers and connected to PostgreSQL databases.

Projects

Dynamic Widget-Based Dashboard & Validation Engines Platform

- Led the React frontend development, designed and implemented key features and responsive UI components.
- Integrated WebSockets to enable real-time updates within widgets.

- Created a custom UI component library on top of React-Bootstrap for a consistent design.
- Involved in implementing a scalable microservices architecture using Node.js, Express, PostgreSQL, and Redis.
- Established interservice communication using REST and RabbitMQ (direct exchange pattern) for asynchronous data processing.
- Configured Express Gateway as an API gateway for centralized authentication and request management.
- Established best practices for development workflows, improving team efficiency and code quality.
- Involved in setting up CI/CD pipelines using AWS CodePipeline and Docker for automated builds and deployments.
- Reviewed code and pull requests regularly to ensure high-quality, maintainable code across the team.

GIS-Based Dynamic Form Builder

- Led the frontend development using React, built responsive UI components and integrated React Router v6 for seamless navigation.
- Developed an npm package for OpenLayers integration in React, simplifying GIS-based map handling.
- Involved in migrating the system from a monolithic architecture to microservices, improving scalability and performance.
- Optimized spatial data handling with improved database indexing and queries, reducing response times by 30%.
- Implemented JWT-based authentication and authorization for secure access control.
- Deployed and managed the application on AWS EC2 (Linux environment).

Recruitment Automation System

- Primarily worked on the React frontend, developing reusable UI components to maintain consistency across the application.
- Optimized API calls using TanStack Query, improving performance and state management.
- Implemented public and private routes for role-based access.
- Used Redux Toolkit & Context API to efficiently manage the global state.
- Wrote unit tests using Jest and React Testing Library to ensure frontend reliability.

Education

Chaitanya Bharathi Institute of Technology, ECE

2017 – 2021

Achievements & Awards

- **Best Performer of the Year (2024) – TRC Companies**
Recognized for outstanding contributions and performance.
- **Key Contributor Award – Neudesic, an IBM Company**
Awarded for significant contributions to the development of the One Credentialing Project.

Certifications

- Advanced React (Render Performance Best Practices Patterns)
- Node with React: Fullstack Web Development
- Modern React with Redux