

NILUPUL PERERA

Senior Software Engineer

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Summary

Senior Software Engineer with 4+ years of experience in frontend-focused web application development using React.js, Next.js, Angular, Vue.js, TypeScript, and JavaScript. Proven track record of building scalable, high-performance, accessible (WCAG-compliant) user interfaces, optimizing application performance, and delivering real-time data visualization and WebSocket-based features. Experienced in Agile/Scrum environments, CI/CD pipelines, and cross-functional collaboration to ship impactful, production-grade software.

Experience

Focalid Technologies — Mirigama, Sri Lanka

Senior Software Engineer — 02/2025 - Present

- Developed responsive, accessible UI components with React.js and Tailwind CSS, achieving WCAG 2.1 compliance across the application.
- Optimized frontend performance using React Profiler, code-splitting, memoization, and custom React hooks, reducing render bottlenecks and improving load efficiency.
- Built interactive data visualizations and geospatial mapping features using D3.js, d3-org-chart, and React-Leaflet to present complex datasets to end users.
- Implemented real-time WebSocket integrations for live updates and notification systems, improving user responsiveness and engagement.
- Drove continuous improvements in code quality, performance, and accessibility standards across the frontend codebase.

Virtusa — Colombo, Sri Lanka

Software Engineer — 01/2024 - 02/2025

- Rewrote and modernized a legacy enterprise application as part of an international engineering team, improving scalability and maintainability.
- Diagnosed and resolved critical production bugs, increasing application stability and reliability.
- Optimized HTTP request handling with Axios and implemented React RTK Query for data caching, significantly improving application performance.
- Re-engineered legacy features using modern frameworks and technologies, applying strong analytical and problem-solving skills.
- Collaborated cross-functionally with UX teams to improve usability and overall user experience.
- Conducted code reviews and knowledge-sharing sessions to raise team-wide code quality standards.
- Delivered high-quality features within Agile/Scrum sprints, ensuring on-time, efficient project execution.

Virtusa — Colombo, Sri Lanka

Associate Software Engineer — 03/2022 - 12/2023

- Revamped a user data management application used by thousands of users.
- Improved UX and resolved bugs across internal software products.
- Configured CI/CD pipelines on AWS for automated deployments.

Education

IIC University of Technology — 2021 - 2024

Bachelor's in Software Engineering

Skills

React.js · Next.js · Angular 2 · JavaScript · Vue.js · Typescript · jQuery · Vuex · Redux · Pinia · AWS · SCSS · Websocket · Firebase · git · Postman

Certifications

AWS Developer - Associate — Amazon Web Services