

Sanket Patrikar

Software Engineer | React, Node.js, PostgreSQL, AWS | Modernization & Performance

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Experience

Kizora Software Pvt. Ltd.

Software Engineer

Sep 2023 – Present

Nagpur, Maharashtra

- Contributed to modernization and feature development for a US-based waste management and recycling platform used by admins and end users for operations, monitoring, reporting, and sensor-data ingestion.
- Improved developer experience, frontend performance, and maintainability in a legacy React codebase.
- Migrated the legacy React application from Webpack to Vite, reducing build times from 15 minutes to 10 seconds and bundle size from 35 MB to 15 MB.
- Upgraded the frontend from React 15 to React 18, refactoring core class components to hooks and modernizing legacy modules for continued development.
- Migrated routing from React Router v4 to v7 and built a compatibility HOC to support gradual migration between class and function components.
- Implemented lazy loading, chunking, and module caching to reduce the initial JavaScript payload and improve load times after repeat visits.
- Upgraded Node.js from v8 to v24 LTS and modernized dependencies, enabling tree-shaking, reducing bundle size, lowering dependency count, and reducing vulnerable packages.
- Load tested report-specific endpoints using Apache JMeter, identified concurrency bottlenecks, and contributed to shifting read-heavy workloads to a reader database instance.
- Optimized high-frequency SQL queries for scheduled reports through indexing and query restructuring, reducing execution time from 3 seconds to 500 ms.
- Performed preliminary frontend security testing using OWASP ZAP and contributed fixes including improved security headers, tighter CSP rules, and more secure high-value cookies.
- Worked on AWS infrastructure restructuring with Terraform, adding an NLB/ALB architecture to support AWS WAF while continuing to accept TCP-based sensor payloads.

Technical Skills

Frontend: React, TypeScript / JavaScript, Vite, React Query, HTML, CSS

Backend / Database: Node.js, PostgreSQL, MySQL, Query Optimization

Cloud / DevOps: AWS, Docker, Terraform

Testing / Security: Apache JMeter, OWASP ZAP, Vitest, Playwright

Tools: Git, OpenAI Codex, Claude Code

Education

KDK College of Engineering

Bachelor of Engineering in Information Technology

Aug 2019 – May 2023

Nagpur, Maharashtra