

Vikram Ravi

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Portfolio : <https://vikramportfolio.vercel.app/>

Professional Summary:

Senior Full Stack Developer with 6+ years of experience designing and delivering high-performance, scalable web applications using **React.js, Next.js, and Node.js**. Proven expertise in frontend architecture, performance optimization, and building maintainable, testable UI systems. Strong backend experience with **Node.js, Express.js, and PostgreSQL**, along with hands-on cloud deployment and CI/CD automation on **AWS**. Experienced in enterprise SDLC, collaborating with cross-functional teams, and contributing hands-on to large-scale application development and optimization.

Frontend Development

- **React & Next.js Mastery:** Extensive experience with React Hooks, Context API, Redux, and React Query, ensuring efficient state management and scalability.
- **Performance Optimization:** Implemented code splitting, lazy loading, memoization, and SSR in Next.js, enhancing application performance.
- **UI/UX & Dynamic Forms:** Built accessible, dynamic, and high-performance React applications with complex form validation and optimized rendering.
- **Component Architecture:** Designed modular, reusable components with custom hooks, HOCs, and code-splitting techniques.

Backend Development

- **Node.js & Express.js:** Developed RESTful and GraphQL APIs, implemented authentication (JWT, OAuth), and optimized database interactions (PostgreSQL).
- **Microservices & API Integration:** Designed scalable microservices architecture, integrating third-party APIs for enhanced functionality.
- **Database Optimization:** Proficient in writing optimized queries and managing databases to improve data processing.

Cloud & DevOps (AWS, CI/CD, Bitbucket)

- **AWS Services:** Experience with EC2, S3, RDS, API Gateway, and serverless computing for scalable deployments.
- **Bitbucket & CI/CD Pipelines:** Managed Bitbucket repositories, implemented CI/CD automation with Jenkins and GitHub Actions, and utilized Docker for consistent development environments.

Leadership & Mentorship

- **Team Leadership & Code Reviews:** Led teams of 5+ developers, providing mentorship, conducting code reviews, and ensuring best practices.
- **Enterprise SDLC Experience:** Active involvement in requirement analysis, estimation, development, debugging, deployment, and maintenance, contributing to 30+ successful feature releases.

Education:

Masters of Engineering

University of Windsor, Windsor, Canada

Bachelor of Engineering

Anna University, Chennai, India

Certifications:

AWS Certified Developer – Associate

Technical Skills:

Frontend Technologies	HTML5, CSS3, Bootstrap-5, SASS/LESS, Tailwind CSS, JavaScript, Typescript
Frameworks & Libraries	React.js, Next.js, Node.js, Express.js
Testing Framework	Jest, Enzyme, React Testing library, Playwright
Debugging Tools	Chrome Developer Tools, Firebug, HTML Validator, POSTMAN, Sentry.io
IDEs & Build Tools	Visual Studio Code, Eclipse, Web Storm, Sublime Text Editor, Notepad++.
Version Control Tools	Bitbucket, Github
Cloud / DevOps CI/CD	Jenkins, AWS

Professional Experience:

Company: Scotiabank

Job Title: Senior FullStack Developer

Duration: Aug 2021 – Present

Responsibilities:

- Architected and developed a frontend application from scratch, establishing scalable folder structures, coding standards, and best practices.
- Implemented lazy loading and code-splitting to optimize performance and reduce initial load times.
- Developed unit tests using Jest for React and Node.js components, increasing code coverage and reliability.
- Leveraged GitHub Copilot to accelerate development by generating boilerplate code, test scaffolding, and refactoring suggestions, while maintaining full ownership through code reviews and engineering standards.
- Designed and implemented custom React hooks to encapsulate and separate business logic from UI components, significantly improving reusability, testability, and maintainability.
- Led the migration from Storybook 6 to Storybook 9, standardizing documentation and visual testing for all reusable UI components across the application.
- Built and maintained a centralized Storybook component library, enabling faster development, improved UI consistency, and better collaboration between developers and designers.
- Established CI-based pull request validation to automatically run frontend builds and tests, strengthening code quality and reducing regression risk.
- Enforced clean architecture principles by decoupling presentation layers from business logic,

resulting in easier debugging, enhanced scalability, and reduced technical debt.

- Utilized MSW to simulate backend APIs across development and test environments, enabling isolated frontend testing, faster feedback loops, and improved confidence during refactors.
- Understood the Business functionality and requirement and derived formulae for some of the tools in react apps to generate accurate data.
- Collaborated with backend engineers (Node.js, REST APIs) to improve data retrieval and API performance.
- Created middleware for API validation, ensuring data integrity before processing requests..
- Built reusable services and components for API consumption, ensuring consistent and maintainable integrations across multiple modules.
- Deployed frontend and backend applications on AWS using services like EC2 and S3, ensuring high availability and scalability.
- Improved the performance of over 10+ pages through optimization techniques leveraging tools such as Lighthouse, Google PageSpeed Insights, and Web Vitals.
- Led code reviews, knowledge-sharing sessions, and mentorship programs, enhancing the team's expertise in React and Next.js best practices.

Environment: HTML, CSS, React.js, Typescript, Rest API, Redux, Node.JS, Jira, Bitbucket, AWS

Company: Ionixx Technologies

Job Title: Programmer

Duration: June 2017 –April 2019

Responsibilities:

- Participated in Agile development cycles, contributing to all phases of the SDLC including analysis, development, testing, and deployment.
- Built and optimized middleware services using Express.js to improve request handling and error management in backend services.
- Built a Project Locator UI using maps for real-time location-based results, improving user engagement.
- Drove the migration of a legacy locator system to Next.js, achieving a 30% improvement in page load times and enhancing overall application performance.
- Used React-Autocomplete for creating Google map's location search on the webpage.
- In Phase Two, worked closely with the Back-End team to display data using the Custom Components, library Components and Redux.
- Used Middleware, Redux-Promise in application to retrieve data from Back-End and to also perform RESTFUL services.
- Optimized Node.js backend performance by implementing caching strategies (Redis), reducing database query times by 40%.
- Worked with backend engineers to optimize existing API calls to create efficiencies by deprecating unneeded API calls.
- Created custom bar graphs for some application without using any library which changes dynamically according to data to represent years.
- Collaborated with DevOps team to setup a dependable and automated deployment pipeline for frontend features, lowering release cycle times.
- Utilized middleware tools like Express.js to manage routing, request handling, and error management.

Environment: HTML 5, CSS3, SASS, LESS, JavaScript, Bootstrap, ReactJS, Redux, Restful API, and JIRA