

SUJAN SHRESTHA

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An experienced Frontend Engineer with a strong passion for learning, researching and building web applications that provides a great user experience.

PROFESSIONAL EXPERIENCE

Infodevelopers Pvt. Ltd.

09/2023 – Present

Senior Software Engineer

- Enhanced accessibility and cross-device usability by upgrading legacy systems with responsive design, keyboard navigation, and WCAG compliance, reducing accessibility-related support tickets by 35% and enabling clients to serve a broader audience.
- Improved Core Web Vitals by reducing Largest Contentful Paint (LCP) from 2.78s to 1.95s and Cumulative Layout Shift (CLS) from 0.21 to 0.09, contributing to improved search visibility and user engagement.
- Modernized a legacy application by introducing modular architecture and reusable domain-driven components following SOLID principles, reducing technical debt, accelerating feature delivery, and improving long-term maintainability.
- Redesigned file-management workflows using NestJS, Amazon S3 pre-signed URLs, and event-driven AWS Lambda processing, reducing backend bandwidth consumption, simplifying storage operations, and improving scalability for high-volume uploads.
- Improved release reliability by enhancing CI/CD pipelines and deployment workflows, reducing manual deployment effort and enabling faster, more predictable software releases.
- Migrated GraphQL queries from inline .gql usage to .graphql file-based structure, introducing cursor pagination and persisted queries, improving API performance, maintainability, and query consistency.

[Tech Stack used: React, GraphQL, Redux, Material UI, Nextjs, Nest, MongoDB, Apollo client, AWS-S3, Lambda]

Aerion Technologies

04/2019 – 09/2023

Software Developer

- Delivered multiple client projects end-to-end, working closely with cross-functional teams to transform business requirements into maintainable and scalable software solutions.
- Explored and implemented authentication strategies using NestJS, including JWT-based authentication and TOTP-based two-factor authentication, improving application security for sensitive user actions and strengthening overall access control design.
- Built server-side rendered applications using Next.js, evaluating different rendering, caching, and data-fetching approaches to improve performance and reduce page load times by ~25%.
- Researched and integrated third-party services such as Zendesk and Recombee by analysing API documentation and adapting integration strategies to improve support workflows and user personalisation.
- Worked closely with designers to translate Figma designs into responsive and accessible interfaces, iterating based on feedback to improve usability and user experience.
- Designed and implemented backend services using NestJS, building REST APIs, validation layers, and core business workflows to support frontend applications and ensure reliable and consistent data flow.

[Tech Stack used: React, SCSS, Styled Components, Redux-toolkit, Storybook, Rest API, Express JS, VueJS]

EDUCATION

Anna University, Chennai, India

2014 – 2018

Bachelor of Engineering in Computer

SKILLS & OTHERS

Frontend: React, Next, TypeScript, Redux, Tailwind, Material UI, Storybook, SCSS

Backend: Node.js, NestJS, REST APIs, GraphQL, MongoDB

DevOps/Tools: Docker, Git, CI/CD, AWS-S3, EC2, Terraform, K8S

Practices: Web Accessibility (WCAG), DSA, Agile/Scrum, System Design fundamentals, Webpack, Rollup