SUJAN SHRESTHA

+977 9806545497 • Tanahun, Gandaki • tlsujank.co@gmail.com • Portfolio • GitHub • LinkedIn

PROFESSIONAL EXPERIENCE

EB-Pearls 07/2025 – Present

Senior Software Engineer

- Built an AI assistant for EB Portal that answers questions from internal documents and performs tasks through MCP tools. Added role-based access, PII filtering, and prompt-injection checks.
- Set up Kubb to generate typed API clients from the backend REST definitions, replacing our hand-written hooks. API changes that break the frontend now show up at compile time.
- Optimized the SSR architecture by adopting TanStack Start, cutting production deployment time by more than 40% approx while simplifying the application build process.
- Moved image delivery to S3 and CloudFront, which cut EC2 CPU usage by 75% and brought image TTFB from ~1.2s down to under 50ms.

Infodevelopers Pvt. Ltd. 09/2023 – 06/2025

Senior Frontend Engineer

- Improved application loading performance by reducing LCP by 30% (2.78s to 1.95s) and CLS by 57% (0.21 to 0.09), delivering a more stable user experience.
- Transformed a legacy application into a modular, domain-oriented architecture using SOLID principles, improving separation of concerns and reducing cross-feature dependencies.
- Implemented structured GraphQL operations, cursor-based pagination, and persisted queries to improve data access, while strengthening authentication with JWT, OAuth2, and TOTP-based MFA.
- Improved release reliability by enhancing CI/CD pipelines and deployment workflows, reducing manual deployment effort and enabling faster, more predictable software releases.

Aerion Technologies 04/2019 – 09/2023

Software Developer

- Built end-to-end web applications using React and NestJS, taking ownership of frontend development, REST API integration, backend validation, and core business workflows.
- Translated complex business requirements into maintainable technical solutions by collaborating directly with clients, evaluating implementation approaches, and working across frontend and backend systems.
- Optimized Next.js application performance by approximately 25% through evaluating and improving SSR, caching, and data-fetching strategies.
- Expanded technical ownership across multiple client projects by exploring better implementation approaches, troubleshooting production issues, and continuously improving application architecture and code quality.

EDUCATION

Anna University, Chennai, India 2014 – 2018

Bachelor of Engineering in Computer

SKILLS & OTHERS

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

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

DevOps/Tools: Docker, Git, CI/CD, EC2, Terraform, Amazon Web Services (AWS), S3, CloudFront, Lambda

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

AI/LLM: LLM integration, RAG, vector search, MCP, prompt-injection and PII safeguards

Architecture: system design, REST and GraphQL API design, serverless on AWS, performance optimization