Rahul Nayanegali

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TECHNICAL SKILLS

Frontend: React, TypeScript, JavaScript, Redux, React Query, GraphQL
Backend: Java, Node.js, REST APIs, GraphQL
Architecture: Micro front-end, TDD, Hexagonal Architecture, Workflow engines, domain modeling, modular architecture, SOLID
Testing: React Testing Library, Jest, Cypress, Playwright, Vitest
Cloud & DevOps: AWS (Lambda, S3, CloudWatch), CI/CD pipelines
Tools: Chrome Extensions, Vite/Webpack, Git

EXPERIENCE

Frontend Engineer
Jun 2025 – Present
Amazon (Contract via Lares IT Solutions Inc)
Seattle, WA

- Modernized a large legacy system using the Strangler Fig pattern, enabling incremental migration to a modular declarative architecture without production disruption.
- Designed and built **ActionWidget**, a reusable workflow engine powering multi-step compliance workflows with conditional logic, 10+ field types, uploads.
- Collaborated with stakeholders to translate ambiguous business rules into generic workflow schemas, decoupling UI from domain logic and enabling iterative feature delivery.
- Drove the decomposition of ambiguous product requirements into discrete, shippable units of work, enabling the team to maintain momentum and deliver incremental value during a complex legacy migration.
- Re-architected testing infrastructure by migrating Cypress to Playwright, slashing execution time by 98% (20m → 20s) and implementing BDD patterns that enable LLMs to autonomously generate test suites.
- Embraced a collaborative engineering culture through **pair programming** and active code reviews, fostering knowledge sharing and accelerating team velocity while maintaining high quality standards.

Software Engineer
Aug 2024 – Jun 2025
Shoptaki
New York, NY

- Advocated for the adoption of TypeScript across the engineering stack, establishing strict type safety standards that reduced runtime errors by 30% and accelerated developer velocity through improved tooling.
- Enforced Test-Driven Development (TDD) and strict commit discipline (separating behavior vs. structure), mandating that all behavioral changes were backed by unit tests.
- Implemented reusable component library for SmartID with TypeScript & Storybook, reducing development time by 20% & maintaining UI consistency across web & mobile apps, enhancing scalability.
- Designed and optimized RESTful APIs using Node.js with ArangoDB, improving graph data retrieval and reducing backend processing time by 25%.
- Designed a service-oriented architecture and defined strict API interfaces with clear separation of concerns between UI, content scripts, and background processes.

Web Development Engineer
Feb 2021 – Jan 2023
CodeCraft Technologies
Bangalore, India

- Modernized legacy JavaScript codebases to ES standards and migrated components to React.
- Migrated state management from Redux to Apollo Client, reducing codebase size by 20% and simplifying application architecture.
- Led the modernization of a legacy codebase by upgrading Webpack, Babel, and Material UI, reducing build time by 50%, decreasing technical debt by 60%, and increasing test coverage by 50%, resulting in 40% faster development speed.

Assistant Systems Engineer
Nov 2018 – Apr 2020
Tata Consultancy Services
Bangalore, India

- Built real-time IoT dashboards using React, Flask, SSE, and AWS Lambda for large-scale sensor monitoring.
- Integrated front-end applications with Flask APIs and RESTful services, handling authentication, data retrieval, and real-time updates to ensure seamless data flow.
- Collaborated with UI/UX designers to translate wireframes and prototypes into functional, visually appealing web interfaces, ensuring accessibility and consistency.

- Optimized front-end performance using techniques such as lazy loading, image compression, JavaScript minification, and elimination of render-blocking resources for faster load times.
- Managed source code efficiently using Git and GitHub, implementing version control best practices, code reviews, and structured branching strategies.

EDUCATION

Pace University New York, NY

Master of Science in Computer Science
- Received the **Computer Science Departmental Award** for outstanding academic performance.