Rahul Nayanegali

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TECHNICAL SKILLS

Frontend: React 18, TypeScript, JavaScript (ES6+), Redux, React Query, Micro-Frontends
Backend: Java, Node.js, REST APIs
Architecture: TDD, Workflow engines, domain modeling, modular architecture, SOLID, dependency inversion
Testing: Vitest, Jest, Cypress, Playwright
Cloud & DevOps: AWS (Lambda, S3, CloudWatch), CI/CD pipelines
Tools: Chrome Extensions, Vite/Webpack, Git

EXPERIENCE

Software Development Engineer
Amazon
Jun 2025 – Present
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, and registry-backed state.
- Implemented a domain translation layer converting business APIs into generic workflow schemas, decoupling UI from domain logic and improving maintainability.
- Established clear feature boundaries (ActionWidget, PolicyWorkflow, ProactiveCompliance, IssueRemediation) with modular components, hooks, and utilities to improve composability and testability.

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

- Built scalable, reusable React + TypeScript components improving feature velocity across frontend teams.
- Strengthened CI/CD reliability by introducing Vitest-based testing and modernizing build pipelines.
- Developed and optimized Node.js REST APIs with ArangoDB for graph-based data retrieval.

Software Engineer (Part-Time)
Aquila Test
Jul 2023 – May 2025
Remote

- Built a QA automation Chrome extension in React 18 + TypeScript, reducing workflow creation time **from 2 days to under 20 minutes (95% faster)**.
- Delivered full product lifecycle: architecture, development, documentation, deployment, and internal tooling.
- Implemented robust test suites with Vitest and mentored engineers on React and TypeScript best practices.

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

- Built customizable survey, leaderboard, and voting UIs for enterprise clients.
- Modernized legacy JavaScript codebases to ES standards and migrated components to React.

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

- Built real-time IoT dashboards using React, Flask, SSE, and AWS Lambda for large-scale sensor monitoring.

EDUCATION

Pace University
New York, NY
Master of Science in Computer Science

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