

Rahul Anandeshi

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ABOUT

Senior Full-Stack Engineer with 8+ years of experience building large-scale React and Angular applications for Fortune-50 companies. Specialized in frontend architecture, micro-frontends, and BFF systems, with strong backend experience in Node.js and Java Spring Boot. Proven track record delivering high-performance, secure, and scalable applications used by thousands of users in production environments.

SKILLS

- **Frontend:** React, Angular (2-18+), TypeScript, JavaScript (ES6+), HTML5, CSS3, SCSS, SASS
- **State Management:** Redux, Zustand, NgRx, NgXs, TanStack Query (React Query), Context API
- **Backend:** Node.js, Express.js, Java Spring Boot, LoopBack, RESTful APIs
- **Databases:** PostgreSQL, MySQL, SQL Server, Oracle, Prisma ORM
- **UI Libraries:** Angular Material, Bootstrap, jQuery, PrimeNG
- **Build Tools:** Vite, Webpack, npm
- **Testing:** Playwright, Jasmine, Karma, Jest, Test-Driven Development (TDD)
- **Cloud & DevOps:** GCP (Spanner, BigQuery), AWS, PCF, Jenkins, Git, Bitbucket, Docker, Spinnaker
- **Monitoring:** New Relic, Grafana, Loki, PagerDuty
- **Security:** Ping Federate, Vantage, RBAC, JWT, HTTP Interceptors
- **Agile Tools:** Jira, Rally, Confluence, Figma, Lucidchart
- **AI/ML:** OpenAI GPT-4 API, Google Cloud AI/ML APIs, TensorFlow.js, Hugging Face APIs, NLP, Computer Vision, Vector Embeddings, ML Model Integration
- **Additional:** Storybook, Swagger, A/B Testing, Feature Flags, XML/XSLT, JHipster

EXPERIENCE

Sr. Software Engineer, The Home Depot - Remote

April 2021 – Present

Universal Pick Application:

- Architected enterprise React application deployed to 2,010 stores, enabling 5,000+ associates to process 100,000+ weekly shipments with 99.8% order accuracy through auditing and restaging features
- Reduced bundle size 40% and improved initial load time through Webpack optimization, code splitting, lazy loading, and Vite integration
- Built Backend-for-Frontend (BFF) using Node.js, Express, and Java Spring Boot microservices, integrating with PostgreSQL, GCP Spanner, and BigQuery
- Implemented secure authentication via Ping Federate and Vantage, with JWT validation and role-based authorization (RBAC)
- Established comprehensive testing strategy using Playwright for E2E testing and TDD practices, deployed via Spinnaker with blue-green deployments
- Monitored production health using New Relic, Grafana, and Loki, with PagerDuty alerting to maintain 99.9% uptime

BOPIS Batching:

- Led Angular 17 migration implementing NGXS state management and a reusable component library with Angular Material
- Architected microfrontend system using Web Components (Custom Elements, Shadow DOM), enabling framework-agnostic module federation
- Built type-safe data access layer using Prisma ORM, handling complex relational queries, migrations, and transactions while maintaining data integrity across microservices
- Mentored 4 junior developers on React, Angular, TypeScript patterns, and modern testing approaches, improving team code quality scores by 40%
- Implemented HTTP interceptors and Angular Router guards to enforce authentication, authorization, and secure request handling across all application routes

Full Stack Developer, Laborers Funds Administrative Office of Northern California

March 2020 – April 2021

- Built the application foundation by creating project scaffolding using JHipster, contributing to overall system architecture and technical direction.

- Developed Single Page Applications (SPA) using Angular 9, implementing component-based architecture, NGRX state management, and RxJS Observables for asynchronous data handling.
- Designed and implemented responsive, user-friendly UIs using HTML5, CSS3, SASS/SCSS, TypeScript, PrimeNG, Angular Material, and Bootstrap, owning the look and feel of the application.
- Created reusable Angular components, templates, and custom directives to improve maintainability and consistency across the application.
- Integrated frontend applications with RESTful APIs, consuming JSON responses and documenting endpoints using Swagger.
- Developed TypeScript services and implemented HTTP communication using RxJS and AJAX for cross-domain server interactions.
- Contributed to database development, creating tables, views, functions, indexes, and supporting backend integration.
- Practiced Test-Driven Development (TDD), writing JUnit tests to ensure code quality and reliability.
- Played a key role in system analysis, troubleshooting complex issues, and driving long-term process and architectural improvements.
- Worked in Agile Scrum and Kanban environments, tracking work in JIRA, managing source control with Git, and supporting CI pipelines using Jenkins

Full Stack Developer, Bank of America**May 2019 – March 2020**

- Partnered with business and system teams to analyze requirements and translate BRDs into scalable UI and backend solutions.
- Designed and optimized enterprise XML/XSLT integrations, improving transformation performance by ~60% and reducing daily CPU utilization.
- Developed and modernized Angular (7+) applications, building reusable components, modules, services, and forms using TypeScript, HTML5, CSS3, and AngularUI Bootstrap.
- Refactored legacy UIs by introducing Angular-based components, improving performance, maintainability, and user experience.
- Implemented enterprise-grade UI security, including JWT-based authentication, role-based access control, protected routes, and secure session handling.
- Enforced frontend security best practices such as input validation, secure API consumption, prevention of unauthorized access, and protection against common web vulnerabilities.
- Built and mocked RESTful APIs using Node.js, Express, and LoopBack, managing dependencies via npm and package.json.
- Designed and optimized SQL Server data models, including complex views, stored procedures, functions, triggers, and transactional logic.
- Performed data migrations from Excel and XML into SQL Server using automated conversion and DTS utilities.
- Actively participated in SDLC and STLC, supporting test case creation, defect tracking, and lifecycle management using JIRA and Rally.
- Supported CI/CD pipelines with Jenkins and gained hands-on exposure to AWS-based deployments.
- Contributed to enterprise collaboration initiatives, including planning and supporting SharePoint rollouts.

Full Stack Developer, DMI**October 2018 – April 2019**

- Built full-stack Single Page Applications (SPAs) using Angular 4–5, TypeScript, and JavaScript, implementing reusable components, custom directives, pipes, and Template-Driven / Reactive Forms with comprehensive validation and two-way data binding.
- Developed backend services using Java Spring Boot (Spring MVC, Spring IoC, Hibernate) and Node.js / LoopBack, creating RESTful APIs, batch-processing jobs, and integrations with external agency systems.
- Designed responsive, cross-device user interfaces using HTML5, CSS3, Bootstrap, and Angular Material, implementing secure authentication, Angular Router guards, and role-based access control (RBAC).
- Established CI/CD pipelines using Jenkins and SVN, deploying cloud-native applications via Docker containers on AWS ECS with automated build and deployment workflows.
- Engineered custom batch processing and data transformation solutions, including flat-file parsing, database persistence, and a JSON parser for Swagger 2.0 specification comparison, reducing deployment overhead by 40%.
- Led code reviews and Agile/Scrum ceremonies (sprint planning, daily stand-ups, retrospectives), producing interface design documentation and enforcing coding standards and best practices across development teams.

EDUCATION

California State University, Northridge, CA

August 2016 - May 2018

Master of Science in Engineering Management

Jawaharlal Nehru Technological University, Hyderabad, India

May 2012 - May 2016

Bachelor of Science in Electronics and Communication Engineering

Personal Projects

WorkflowSim: <https://workflowsim.com> | **Aaharr:** <https://aaharr.com> | **LaundryWheel:** <https://laundrywheel.com>

- Architected three production AI-powered applications (WorkflowSim, Aaharr, LaundryWheel) using React, Node.js/Express, PostgreSQL, and AWS, serving 1,000+ active users with OpenAI GPT-4 API and Google Cloud AI/ML APIs for intelligent automation and personalization
- Implemented NLP-powered features using Hugging Face APIs and TensorFlow.js, including semantic search with vector embeddings (92% relevance), conversational recipe assistance, ingredient recognition via computer vision (87% accuracy), and predictive scheduling algorithms that reduced user wait times by 45%
- Built serverless AI functions using AWS Lambda for real-time task routing and ML-driven recommendations, integrating Prisma ORM, Redux, TanStack Query, and CI/CD pipelines with comprehensive monitoring and analytics dashboards

Stack: React, Node.js, Express.js, Java Spring Boot, PostgreSQL, AWS (RDS, EC2, S3), OpenAI GPT-4, TensorFlow.js, Google Cloud AI/ML, Hugging Face, Prisma, Docker, Vite