VEENA V NAIR

Senior Frontend Architect | Angular Technical Lead

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PROFESSIONAL SUMMARY

Senior Frontend Architect and Angular Technical Lead with 11+ years building enterprise web applications in healthcare, genomics, finance, publishing and SaaS. Expert in Angular, TypeScript, RxJS and NgRx, with hands-on experience in React and Node.js. Leads microfrontend architecture, secure authentication (OIDC, OAuth 2.0, JWT, RBAC) and frontend performance optimisation. Delivered 35% smaller bundles, 40% faster load times and 30% faster feature development. Mentors engineers, sets coding standards and works closely with product, UX and backend teams in Agile environments.

CORE SKILLS

Frontend: Angular (2–18), TypeScript, JavaScript (ES6+), RxJS, NgRx, React, Redux, React Hooks, HTML5,CSS3, SCSS

Architecture: Microfrontends, Modular Architecture, Design Systems, Reusable Component Libraries, SOLID Principles

Performance: Lazy Loading, Code Splitting, Tree Shaking, Webpack, Bundle Optimisation, Core Web Vitals

Security: OIDC, OAuth 2.0, JWT, Role-Based Access Control (RBAC), HIPAA-Aligned Workflows

Backend & APIs: Node.js, Express.js, RESTAPIs, GraphQL

Testing: Jest, Jasmine, Karma, Unit Testing, Test-Driven Development (TDD)

DevOps & Tools: Git, GitHub Actions, Jenkins, Docker, CI/CD, Jira

UI Quality: Responsive Design, Accessibility, Cross-Browser Compatibility

Leadership: Technical Leadership, Mentoring, Code Reviews, Architecture Reviews, Agile/Scrum

AI Tools: GitHub Copilot, Cursor, Claude, LLM API Integration, Prompt Engineering

PROFESSIONAL EXPERIENCE

Frontend Architect / Angular Technical Lead | BrandOptics India Ltd | Apr 2023 – Present | Kochi

- Architected enterprise Angular applications on a microfrontend model, enabling independent deployment across 3+ product teams.
- Reduced application bundle size by 35% using lazy loading, code splitting, tree shaking and Webpack optimisation.
- Implemented OIDC/OAuth 2.0 authentication with JWT and role-based access control for HIPAA-aligned healthcare workflows.
- Developed Node.js/Express.js services and integrated RESTAPIs for enterprise clinical applications.

- Built a reusable UI component library and defined frontend coding standards and architecture review practices.
- Led and mentored a team of 6 frontend developers through code reviews, pairing and technical guidance.
- Partnered with UI/UX and business stakeholders on usability improvements that increased user satisfaction by 25%.
- Introduced AI-assisted development tools (GitHub Copilot, Cursor, Claude) to improve team productivity.

IT Analyst / Senior Frontend Developer | Tata Consultancy Services | Dec 2014 – Mar 2023 | Kochi

- Delivered large-scale Angular single-page applications for finance, publishing, SaaS and healthcare clients.
- Improved application load times by 40% through lazy loading, route optimisation, code splitting and bundle analysis.
- Built shared Angular UI components adopted by 3+ teams, reducing feature development time by about 30%.
- Developed React and TypeScript interfaces for a UK healthcare platform (MedCare Connect) using React Hooks and Redux. Integrated patient and appointment RESTAPIs with role-based permissions.
- Maintained 95%+ unit test coverage with Jasmine, Karma and Jest, reducing production defects by 35%.
- Supported CI/CD deployments using Jenkins and GitHub Actions.
- Received the On-the-Spot Award for outstanding project delivery.

SELECTED PROJECTS

PGx Clinical Portal — Healthcare / Genomics

Angular, TypeScript, RxJS, NgRx, Node.js, Express.js, OIDC, REST APIs, Microfrontends

Architected clinician and patient workflows, secure role-based access, and shared frontend components; optimised bundles and explored LLM-powered clinical workflow prototypes.

MedCare Connect — UK Healthcare Platform

React, TypeScript, React Hooks, Redux, REST APIs

Developed type-safe clinical and administrative interfaces integrating patient and appointment APIs with role-based permissions.

Enterprise Ebook Platform — Publishing

Angular, TypeScript, RxJS, NgRx, REST APIs, CI/CD

Built multi-tenant publishing portals and reusable components; improved performance through route-level lazy loading and bundle optimisation.

WorkFlow Pro — Full-Stack Personal Project

React, TypeScript, Vite, Node.js, Express.js, Prisma, PostgreSQL

Built a project and task management application with Admin, Manager and Member roles and task-status tracking.

EDUCATION

Master of Computer Applications (MCA) — Amrita Vishwa Vidyapeetham, Kochi | 2011–2014

Bachelor of Computer Applications (BCA) — Amrita Vishwa Vidyapeetham, Kochi | 2008–2011

CERTIFICATIONS

Foundations: Data, Data, Everywhere — Google (2026) | Vibe Coding with Cursor AI — Scrimba (2026) | Intro to Claude AI — Scrimba (2026)

Microsoft Web Platform: HTML5 Web Apps — Microsoft (2017) | Node.js Developer Certification — OpenJS Foundation | ASP.NET Core / .NET Backend Development — In Progress