Ritam Sen

Senior Frontend Engineer – Angular Specialist

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LinkedIn | GitHub | Portfolio

Professional Summary

Senior Angular Frontend Engineer with 6+ years of experience building large-scale, real-time frontend applications in healthcare and fintech domains. Specialized in Angular, State management, and performance-critical UI architectures. Experience integrating LLM-powered features (OpenAI/Groq APIs) into frontend workflows, including streaming responses, prompt orchestration, and AI-assisted dashboards. Strong focus on scalability, Core Web Vitals, and enterprise-grade frontend systems.

Core Skills

- **Frontend Development**: Angular (12–20), Angular Universal, TypeScript, JavaScript (ES6+), RxJS, NgRx, SCSS, Tailwind, HTML5, Web Components
- **Architecture & System Design**: Micro-frontends, Angular SSR, HLD/LLD, Web Workers, SOLID.
- **AI & LLM Integration (Frontend-Focused)**: LLM API Integration (OpenAI / Groq compatible APIs), Streaming Responses (ReadableStream, SSE), Prompt Engineering, Agentic UI Workflows, Gen AI
- **Backend Basics & Integration:** Node.js, Express.js, REST APIs, PostgreSQL, MongoDB
- **Cloud Tools**: GCP, Docker, Kubernetes, Firebase, GitHub Actions, CI/CD Pipelines
- **Testing & Quality**: Jest, Jasmine, Karma, Storybook (BDD/TDD), Protractor, Lighthouse, Core Web Vitals, Accessibility (WCAG)
- **Collaboration & Leadership**: Agile/Scrum, Jira, GitHub/Bitbucket, Team Mentoring, Stakeholder Communication

Professional Experience

CitiusTech – Senior Software Engineer

Bangalore | Dec 2021 – Present

- Engineered real-time IoT healthcare dashboards (Angular + NgRx + WebSockets) handling 100k+ daily events with refresh latency reduced by 40%.
- Architected a scalable micro-frontend platform enabling independent deployments and reducing release cycles from 2 weeks to 6 days for other dependent views.
- Optimized Core Web Vitals using Angular SSR, lazy loading, and Web Workers, improving load times by 20%.
- Developed AI-based anomaly detection modules with trend charts and notifications, reducing false alerts by 30%.
- Led automation pipelines using Jest with over 90% coverage, ensuring code quality and reliability.
- Mentored junior engineers on reusable components and best practices, increasing sprint velocity by 30%.
- Collaborated with data and product teams to integrate predictive analytics and heatmaps, improving clinician decisions.

Key Project Highlights:

- Centre Without Walls™ (IoT Dialysis Platform): Real-time dashboards with predictive analytics; Dockerized microservices deployed on GCP.

- Centricity Practice Solution: Delivered HIPAA-compliant workflows, FHIR/HL7 integration, optimized queries (30% faster responses).

Capgemini – Associate Consultant

Chennai | Jun 2019 – Dec 2021

- Migrated legacy AngularJS applications to Angular 14, reducing load times by 50% and improving scalability.
- Built real-time fintech dashboards using AgGrid and Highcharts for instant forecasting and analytics.
- Achieved 90%+ test coverage with Jasmine and Protractor automation, cutting QA effort by 40%.
- Designed and implemented custom Tailwind CSS themes and component libraries for reusable UI.
- Collaborated on frontend HLD/LLD and modular architecture for high-volume trading

platforms. **Key Project Highlights:**

- Morgan Stanley – D2 Equity Syndicate Dashboard: Angular + NgRx real-time trading dashboard rendering millions of records using Web Workers for zero lag.
- Capgemini HR Portal (Angular + SCSS + Firebase): Internal PWA for 10k+ employees, reducing manual HR tasks by 30%.

Personal Projects
- **RitamCast – Weather Forecast App – Try Me**
  Developed a responsive Angular PWA using OpenWeather API. Integrated geolocation.
- **Artisan – E-Commerce Web App – Try Me**
  Built a feature-complete Angular e-commerce prototype with reusable components.
- **AI-Finance Tracker Try Me**
  Smart Budget Management with AI-Powered Insights.
- **Bright Smile Dental Clinic (Mean Stack) Try Me**
  Doctor and Patient Dashboard
- **Agentic AI – AI project Assistant Try me**
  Project analysis tool integrating Groq API

Education
B.Tech | College of Engineering & Management, Kolaghat | 2014–2018

Certifications
- HackerRank – Angular Certification
- HackerRank – JavaScript (Intermediate)
- FreeCodeCamp – JavaScript Algorithms & Data Structures Certification
- FreeCodeCamp – Responsive Web Design Certification
- LCO – Angular Bootcamp

Awards & Recognition
- Key Performer – CitiusTech: Delivered IoT dialysis platform, securing new client investment.
- Star of the Month – Capgemini: Completed Angular migration ahead of schedule, improving project delivery.
- Client Recognition – Morgan Stanley: Designed a zero-latency real-time trading dashboard for high-volume events.