

N L Subramanya Tejas

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Experience

American Express (via Cognizant)

Dec 2020 – Present

UI Engineer

Bengaluru, India

Global Search – Micro-Frontend Architecture

- Led 6-month migration of Global Search from shared MYCA tenancy to a dedicated OneApp MFE tenancy, enabling architectural autonomy and independent release cycles.
- Designed and provisioned new root module and infrastructure; resolved layered runtime dependencies during migration.
- Evaluated legacy SAN inheritance and avoided coupling with Iguazu-based REST/RPC services, preventing long-term framework bloat and dependency creep.
- Architected CNAME-based domain transition to preserve bookmarked URLs and ensure seamless redirection to `globalsearch.americanexpress.com`.
- Eliminated 10-second analytics blind spot by reconfiguring script execution order across Adobe Analytics and experimentation integrations.
- Built real-time typeahead search component leveraging backend suggestion endpoint to enhance query discoverability and UX responsiveness.
- Mentored a junior UI engineer and authored migration documentation for future MFE tenancy transitions.

Partner Servicing Portal – Enterprise Onboarding Platform

- Developed enterprise onboarding application used by partner banks to launch card products within the American Express ecosystem.
- Implemented complex multi-step workflows, lifecycle dashboards, and large-scale card art management modules supporting thousands of assets.
- Reduced page load time by 30% through code-splitting and performance profiling; improved accessibility scores by 45% to meet WCAG standards.
- Reduced reported security vulnerabilities by 60% via secure coding practices and PRISMA scanning; migrated test stack from Enzyme to React Testing Library.
- Assumed feature ownership during tech lead absence, aligning business and engineering stakeholders to ensure timely delivery.

Projects

ForexFix – Travel FX Intelligence Platform | Next.js 15, TypeScript, Supabase, Gemini LLM, Tailwind CSS

- Designed and built an LLM-assisted travel FX intelligence web application combining live interbank rates with rule-based fee and spread modeling.
- Separated deterministic currency calculations from LLM-generated strategy narratives to maintain numeric accuracy and control model behavior.
- Implemented caching strategy (Supabase + TTL) to minimize external API and LLM usage costs while maintaining data freshness.
- Architected using Next.js App Router with server components and API routes; deployed on Vercel with production-grade environment configuration.

Technical Skills

Frontend Engineering: JavaScript (ES6+), React, TypeScript, Micro-Frontend Architecture (OneApp), Redux, Context API, Performance Optimization (Code Splitting, Lazy Loading, Lighthouse), Accessibility (WCAG)

Backend & Integration: Node.js, REST APIs, Authentication (JWT), API Contract Design

Testing & Quality: Jest, React Testing Library, Cucumber (BDD), Unit & Integration Testing

DevOps & Observability: CI/CD (GitHub Actions, Jenkins), Docker, Splunk, OpenSearch, PRISMA, SonarQube

Education

Atria Institute of Technology (VTU)

2016 – 2020

B.E. in Computer Science & Engineering

Bengaluru, India