

JITESH YADAV

SENIOR STAFF ENGINEER



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[LinkedIn](#)



[GitHub](#)

SKILLS

JavaScript | TypeScript

Angular | React | Next.js

Redux | NgRx | Zustand

Jest | karma | Jasmine

HTML | HTML Canvas | CSS

Tailwind | Bootstrap | PrimeNG

Material UI | Design Systems

Micro Frontends

Web Performance | Web Vitals

Web Security & Accessibility

Node.js | Express

Python | FastAPI

REST APIs | GraphQL

MongoDB | Postgres

Docker | Kubernetes | OpenShift

GitHub Actions | Jenkins | GitOps

AWS & Azure Cloud Services

SUMMARY

Seasoned full-stack engineer with 13+ years of experience in the software industry and 6+ years in front-end architecture, specializing in React, Angular, Next.js, micro-frontends, and scalable enterprise applications. Skilled in modern UI/UX principles, Design Systems, Web Performance, Security, and Accessibility.

Adept at agile methodologies and leading cross-functional teams, delivering cloud-based UI solutions. Committed to continuous learning and staying updated with industry trends to keep growing and help the organization succeed.

EXPERIENCE

SENIOR STAFF ENGINEER - NAGARRO INC.

Client - CSX | Jacksonville, Florida | Sep 2018 - Present

Helping the railroad company modernize its operations by working as an individual contributor as well as leading teams to build user-friendly, enterprise web applications that make daily work smoother and more efficient for railroad staff. Projects undertaken during this tenure:

Project: Developer Platform with Backstage

As part of the client's architecture team, leading the design and development of a developer platform using Spotify's [open-source](#) project [Backstage](#), enhancing the developer experience with custom [React/Node.js](#) plugins, workflow automations, and SaaS integrations.

Tech Stack: React, Node.js, Express, TypeScript, Jest, Material UI, Postgres, Backstage, REST APIs, GraphQL, GitHub Actions

Key Contributions:

- **Custom Plugins & SaaS integrations:** Wrote custom plugins in React, Node.js and integrated various SaaS tools e.g., GitHub, Jenkins, OpenShift, Datadog & LeanIX.
- **Developer Workflow Automation:** Automated various developer workflows e.g., scaffolding a new Angular app or a microservice.
- **Open-Source contribution:** In my spare time, created the open-source plugin - [Synergy](#) to establish an inner-source hub within an organization and contributed back to Backstage plugin marketplace.

Impact: This initiative enhanced the development experience by consolidating various SaaS tools under one platform and implementing developer workflow automations, resulting in significant time savings.

EDUCATION

Bachelor of Technology
in Computer Science from
UIET, Kurukshetra University,
India

WORK PERMIT

H1B visa valid till Jan 2026
I-140 approved so cap exempt

Project: Interactive Canvas View for Railroad Asset Reporting

Led the design and implementation of an interactive **HTML** canvas view to improve work order reporting for railroad assets (Tracks, Bridges, Tunnels) across multiple departments in an **Angular SPA**.

Tech Stack: Angular, TypeScript, HTML Canvas, Offline Storage, IndexedDB, Navigation API, Jenkins, Web Performance

Key Contributions:

- **POC Development:** Developed a POC to demonstrate the concept of drawing interactive railroad assets on **Canvas**.
- **Design & Implementation:** Created an **Angular** library for a modular canvas solution, using **KonvaJS** to build a layered, interactive map of assets and ensured **extensibility** for different departments to customize and add their own assets.

Various consideration during technical design:

- Implemented **real-time** canvas refresh while user is moving on the tracks and **offline mode** for use in tunnels, leveraging **IndexedDB** for data storage.
- Developed an event-based system for asset interactions, enabling department-specific handlers for reporting.
- Addressed NFRs like **performance**, and **stale data handling**.

Impact: Successfully delivered a solution that innovated the way reporting was performed, enhancing user engagement and boosting productivity across multiple departments.

Project: Legacy Apps Migration to Consolidated Angular Web App

Led the design and implementation of a **large-scale** migration, consolidating multiple legacy applications into a unified **Angular** web app to enhance daily workflows for railroad users.

Tech Stack: Angular, TypeScript, NgRx, RxJS, Karma, Jasmine, PrimeNG, Micro-frontends, Web Performance, Accessibility & Security, Python, FastAPI, REST APIs, MongoDB, Docker, Kubernetes, GitOps

Key Contributions:

- **Technical Design & Architecture:** Played a key role in shaping the **front-end architecture**, addressing cross-cutting concerns, and ensuring consistency across multiple teams through **code reviews**.
- **Feature Development Leadership:** Led feature development within one of the teams, driving implementation while aligning with the broader multi-team strategy.

Impact: Delivered a modern, unified platform that streamlined workflows, improved user productivity, and reduced maintenance overhead for the support team.

ASSOCIATE STAFF ENGINEER - NAGARRO SOFTWARE PVT. LTD.

Client - SIEMENS | Gurgaon, India | Mar 2014 – Aug 2018

Transitioned Mainframe & excel based solutions to a more modern technology stack i.e., **Angular & JavaScript** ecosystem while building user-friendly enterprise web applications.

Project: Modernization of Siemens In-House Risk Assessment Tool

Worked on the migration of Siemens' in-house risk assessment and planning tool for industrial projects from Excel-based solutions to a web-based [Angular](#) application, improving efficiency and usability.

Tech Stack: Angular, TypeScript, plotly.js, HTML, CSS, Bootstrap

Key Contributions:

Designed and developed a scalable [Angular](#) web application to replace the Excel-based risk assessment tool, ensuring better data management and user experience.

Impact: Successfully modernized excel based solution, improving workflow efficiency and reducing manual effort within a web-based platform with graphs & visualizations.

SOFTWARE DEVELOPMENT ANALYST – DELL SERVICES**Client – Bank of Ireland | Noida, India | July 2011 – Feb 2014**

Joined as a fresh graduate and contributed to the development and maintenance of enterprise-level applications for the Bank of Ireland, using mainframe technologies.

Key Contributions:

Played a key role in the development of an application that provided users with a consolidated view of all their accounts and displayed guaranteed deposit information in compliance with the Deposit Guarantee Scheme, ensuring coverage in the event of bank insolvency.