

MEHATHAB SHAIK

Full Stack Software Engineer | US Permanent Resident
React | Node.js | Next.js | Typescript | Nest.js | Express
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Professional Summary

Experienced Full Stack Engineer with over 10 years of success delivering scalable, maintainable web applications across enterprise, government, and startup environments. Proficient in modern technologies including React, Node.js, TypeScript, and GraphQL, with hands-on experience building modular architectures using Webpack Module Federation, monorepo structures with Nx, and API ecosystems powered by REST and GraphQL Federation. Known for rebuilding complex internal tools from the ground up, improving performance, maintainability, and user satisfaction. Strong advocate of clean code, type safety, and test-driven development, leveraging tools like Cypress, Jest, Prisma, and CASL. Skilled in cross-functional collaboration, user-centered design, and mentoring developers to raise team standards and deliver high-impact solutions.

Core Competencies

Frontend Development

React, Next.js, React Hooks, Redux, Storybook, HTML, CSS, JavaScript, TypeScript

Web Performance Optimization

Lazy Loading, Code Splitting, Minification, Micro Frontend Architecture: Webpack Module Federation

Backend Development & Integration

NodeJS, Express, RESTful APIs, GraphQL, Apollo Server, MySQL, MongoDB, Prisma, CASL (Role-Based Access Control), OAuth, JWT, NestJS, GraphQL Federation, TypeScript

Database Design & Management

SQL (MySQL, PostgreSQL), NoSQL (MongoDB), Schema Design, Data Integrity, Migrations

Cloud & DevOps

Docker, AWS S3, CI/CD Pipelines, Kubernetes

Agile Development & Leadership

Team Collaboration, Mentoring, Problem-Solving, Communication

Professional Experience

Senior Software Engineer (Contract)

FM Global | Aug 2023 – Mar 2025

A leading commercial property insurer serving over one-third of Fortune 1000 companies with data-driven risk management solutions.

Modernized internal platforms by developing scalable frontend architecture, integrating micro-frontends using Module Federation, and improving developer workflows.

- Built a **platform shell using Module Federation** to integrate remote React apps, increasing development and release efficiency by **20%**.
- Implemented **shared state management** (singleton state context and react state hooks) between react remote modules to enable seamless cross-app communication and a unified user experience.

- Integrated **TypeScript support** into federated modules using `@module-federation/typescript`, improving type safety and maintainability.
- Maintained and enhanced the internal **React UI component library** and **Storybooks**, supporting design consistency and speeding up development.
- Developed **end-to-end tests with Cypress**, expanding test coverage and reducing manual QA efforts.
- Implemented key Dashboard react components that features **fuzzy search**, **auto-logout**, **user preferences**, and **activity-based auto-logging**, enhancing usability and system security.
- Used **Tailwind CSS** to style reusable components, improving visual consistency and UI development speed.
- Implemented scalable serverless backend APIs using AWS Lambda and API Gateway, seamlessly integrating with React frontends to deliver dynamic content.
- Contributed to the development of scalable, high-performance React applications integrated with AWS services (Lambda, API Gateway, DynamoDB, S3), improving deployment time.

Tech Stack: React, Node.js, TypeScript, Tailwind CSS, Cypress, Jest, React Testing Library, Storybook, Apollo GraphQL Client, Webpack, Module Federation, AWS Lambda, DynamoDB, S3, API Gateway

Full Stack Developer (Contract)

GSA | Aug 2022 – Aug 2023

An independent agency of the U.S. government providing centralized procurement for federal agencies.

Contributed to digital modernization by building scalable full-stack applications supporting high-volume bidding systems and administrative processes.

- Developed and maintained **scalable backend services** using **NestJS**, **TypeScript**, and **MySQL**, ensuring performance and data integrity during **peak loads in bidding cycles**.
- Designed and implemented a **bid flow system** for vehicle purchases, improving operational efficiency by **30%**.
- Contributed to the adoption of **GraphQL Federation**, enabling modular and efficient API architecture across services.
- Built **reusable UI components** and improved state management using **Recoil**, **Apollo Client**, and **React Context**, enhancing frontend scalability and maintainability.
- Integrated **AWS S3** for secure file storage and on-demand document retrieval, improving accessibility and reducing storage overhead.
- Collaborated closely with designers, backend engineers, and product managers to deliver solutions aligned with user and business needs.
- Supported testing efforts using **Jest** and **React Testing Library** to ensure application reliability and maintainability.

Tech Stack: React, Node.js, TypeScript, NestJS, MySQL, Prisma, GraphQL, GraphQL Federation, Express, Apollo GraphQL Client, Recoil, AWS S3, Jest, React Testing Library, Storybook

Software Engineer (Full time)

Point Card | Feb 2022 – Aug 2022

A fintech startup offering debit card services with premium rewards and features.

Redesigned and rebuilt internal tools to enhance agent workflows, improve maintainability, and support secure, scalable feature rollouts.

- **Led the rebuild** of the internal tool, **Point Admin 2.0**, from the ground up—replacing v1.0 with a more stable, user-friendly version.
- Conducted **user interviews with support agents** to understand pain points in the existing system, directly informing the new design and improving overall user satisfaction.
- Used **Nx** to structure the new app in a **modular monorepo**, improving maintainability and code reuse across internal tools.
- Built backend services with **Node.js** and **TypeScript**, focusing on clean, scalable APIs for internal workflows.
- Developed **RESTful APIs** using **Express.js**, integrating **Google OAuth** for secure authentication and a smoother login experience.
- Supported **gradual feature rollouts** through **LaunchDarkly**, allowing safe deployments and controlled experimentation.
- Implemented **CASL-based role management**, ensuring granular, secure access for different user types within the admin panel.

Tech Stack: React, Node.js, TypeScript, MySQL, Express, GraphQL, Apollo GraphQL Client, CASL, Jest, React Testing Library, Storybook, Nx, LaunchDarkly

Senior IT Engineer (Contract)

Express Scripts | Nov 2018 – Feb 2022

A major pharmacy benefit management (PBM) organization serving healthcare providers and patients.

Contributed to business-critical frontend systems, introduced microfrontend architecture, and supported knowledge-sharing initiatives across teams.

- Built and maintained **reusable React components** across core business applications, reducing development time by **15%** and promoting UI consistency.
- Automated build and deployment tasks with **Gulp**, improving workflow efficiency and team productivity by **25%**.
- Contributed to the successful **proof of concept for Micro frontends** using **Webpack Module Federation**, laying the groundwork for a more modular and scalable frontend architecture.
- Frequently supported teammates with **React-related questions** and shared learnings through informal **tech talks and discussions**, helping newer developers ramp up and encouraging team-wide knowledge growth.
- Collaborated closely with cross-functional teams to deliver stable, maintainable features aligned with business priorities.

Tech Stack: React, Node.js, Redux, Redux Toolkit, Jest, Jasmine, Gulp, Webpack, Module Federation

Frontend Engineer (Full time)

Care Medical LLC | Sep 2015 – Nov 2018

A healthcare organization focused on providing digital solutions to support clinical operations and patient care.

Built frontend interfaces and data visualizations for medical platforms, supporting clinicians with actionable, real-time insights.

Tech Stack: React, Node.js, Bootstrap, D3.js, Express

Education

Master of Science in Information Systems

Stevens-Henager College | Nov 2016

Bachelor of Science in Computer Science

Andhra University | Apr 2009