

# MEHATHAB SHAIK

<https://www.mehathab.dev/>

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

Full-Stack Engineer with 10+ years of experience building scalable web apps using React, Node.js, TypeScript, and GraphQL. Expert in modular architectures, Module Federation, and federated APIs. Passionate about clean code, type safety, and test-driven development. Known for modernizing legacy systems, optimizing performance, and mentoring teams to deliver reliable, high-quality 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.
- Built **low-latency React components** leveraging **WebSockets** and **state synchronization**, improving live data rendering for financial events.

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

## 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 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.
- Built and optimized React + TypeScript components for transaction and billing dashboards integrated with **Paymetrix**, enabling real-time credit card payment visibility.

**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