

# Mansi Patel

Dallas, TX

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## Summary

Full-stack Software Developer actively contributing to system design, scalable API architecture, and frontend modernization using ReactJS and NestJS. Experienced in building performant UIs, dynamic client-server integrations, and writing over 350 automated tests for robust, maintainable applications with a focus on secure, testable code and digital application scalability in regulated environments.

## SKILLS

- **Programming Language:** Java, JavaScript, TypeScript, CSS, HTML, XML, Python
- **Framework/Libraries:** NestJS, Next.js, ReactJS, React Native, JQuery, Spring Boot, Bootstrap, Angular, OpenAI, WordPress, Figma
- **Development Tools:** VS Code, IntelliJ IDEA, GitHub Copilot, Git, Postman, TortoiseHg, Figma
- **Project Management Methodology:** Agile SDLC, Continuous Integration/Continuous Deployment (CI/CD)

## WORK EXPERIENCE

### BE Networks | Software Developer

Sep 2023 - Present

- Led the migration of a legacy JavaScript frontend to a modular ReactJS architecture using Mantine and TanStack Router, while actively contributing to system design and architectural discussions to enhance scalability and maintainability.
- Built a modular backend middleware with NestJS following the MVC pattern, managing request flow and reducing end-to-end latency by 35% in a distributed system, thereby enhancing system scalability and application performance.
- Implemented interceptors in NestJS to enforce consistent API response structures and centralized error handling, streamlining debugging and reducing maintenance efforts by 30%.
- Architected an HTTP client using dependency injection and factory-based configuration for dynamic API routing, ensuring adaptability to evolving digital application requirements.
- Reduced redundant setup code by approximately 80% across 5+ backend modules to improve maintainability and support secure, stable, and testable code for application systems analysis.
- Employed queues and hash maps on the frontend to manage chatbot session history, which optimized memory usage and contributed to stable digital service delivery.
- Authored over 350 unit, integration, and E2E tests using Jest, improving test coverage and supporting 99% uptime—demonstrating strong analytical, quantitative, and technical skills essential for application development.

### Moltech Solutions Pvt. Ltd. | Software Developer

Apr 2021 - Dec 2021

- Developed and deployed five web and mobile applications using React.js, React Native, and Bootstrap, aligning with digital application development needs and improving UI by 35% while ensuring clear and concise communication of project requirements.
- Optimized performance and deployment by enhancing SEO, implementing CI/CD practices, and revamping web designs with reusable components and prototyping, which reduced downtime by 40% and improved page load speeds by 15%.
- Accelerated development cycles and enhanced UI/UX by engineering reusable components and performance tuning, reducing design iteration time by 50% and ensuring rapid delivery of secure and maintainable code.

## EDUCATION

### The University of Texas at Arlington

Jan 2022 - Dec 2023

Master of Science, Computer Science (GPA: 3.83/4)

### Kadi Sarva Vishwavidyalaya

Aug 2017 - May 2021

Bachelor of Science, Computer Engineering

## PROJECTS

### Developer Portfolio | <https://mansipatel.dev> | Next.js, Tailwind CSS, Vercel, Git

Mar 2025

- Built and deployed a responsive, high-performance portfolio using Next.js, TypeScript, and Tailwind CSS, deployed on Vercel and managed via GitHub. Designed to present projects, tech stack, and experience with clean UI, fast load times, and structured content.

### Life Insurance Management System | Spring Boot, Angular, MySQL, Git

Jan 2025

- Built a backend-focused insurance platform using Spring Boot, Angular, and MySQL, featuring secure REST APIs and workflows for policy creation, premium tracking, and role-based access.
- Designed backend modules for business logic, integrated relational data models, and structured the application for clarity, scalability, and ease of testing.

### Cab Booking System (Database Project) | SQL, Python

Jul 2022 - Aug 2022

- Designed a relational database schema for a cab booking platform, including customer, driver, and trip management. Created EER diagrams, applied normalization techniques, and wrote SQL queries to support core operations and maintain data integrity.
- Used a basic Python script to execute SQL operations and test booking flows through terminal input.

## CERTIFICATIONS

- **AWS Certified Cloud Practitioner:** Amazon Web Services (AWS), Jun '24