

GAURAV RAKESH SINHA

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EDUCATION

Northeastern University, Boston, MA | **GPA: 3.704**

Expected May 2025

Master of Science in Software Engineering Systems

Relevant courses: Object Oriented Design, Web Design and User Experience, Program Structure and Algorithms.

Mumbai University, Mumbai, India

June 2021

Bachelor of Engineering in Electronics and Telecommunication

Relevant courses: Object Oriented Programming, Database Management System.

SKILLS

Programming Languages: Java, JavaScript ES5 ES6, jQuery, TypeScript, Python.

Web Technologies: REST API, HTML, CSS, SASS.

Frameworks and Libraries: ReactJS, Next.js, Node.js, Express, Redux, Chakra UI, Tailwind.

Database: MySQL, MongoDB, PostgreSQL.

Tools: GitHub, Git, IntelliJ Idea, VS Code, Postman, Android Studio, VMware vSphere suite.

WORK EXPERIENCE

Tata Consultancy Services – Mumbai, India

System Engineer

July 2023

- Collaborated with product managers and software developers to translate the design team's custom dashboard into responsive, single-page web applications (SPAs) using **React**, **AJAX**, and **JavaScript**, resulting in a 25% load time reduction.
- Conducted code reviews in a Virtual Desktop Infrastructure (VDI) environment to ensure standardized development settings and reduce inconsistencies caused by individual machine configurations.
- Coordinated with cross-functional teams, comprising UI/UX designers and backend engineers, to ensure that the new React components complied with project specifications.
- Incorporated **Redux** toolkit to manage the application state efficiently and ensure a smooth user experience.
- Developed reusable code libraries which reduced project development time by 50% and increased team productivity.
- Designed a **REST API** architecture jointly with the back-end team for efficient CRUD operations. Successfully integrated the API with the user interface for data management and display that improved the overall speed and reliability of the company's web application by 20%.

Assistant System Engineer

July 2022

- Designed page wireframes and mockups in **Figma** that increased the ease of development of individual page design, while adhering to WCAG 2.x compliance.
- Identified and rectified front-end issues, including **HTML**, **CSS**, and JavaScript errors (including **jQuery**), through thorough unit testing. Achieved a 30% enhancement in overall quality assurance.
- Resolved front-end issues and bugs using **Git**, and **Agile SCRUM** methodology to provide a smooth and polished user experience.
- Committed to the design and development of online applications, prototypes, and proofs of concepts for several initiatives.
- Consulted and documented UI best practices and code standards.

SOFTWARE PROJECTS

Present

(Next.js, Redux, React DND, REST APIs, MongoDB, TypeScript)

- Designed and developed end-to-end web application which includes User Interface and REST APIs using **Next.js** that allow users to interactively create animation-based presentations.
- Maximized application scalability with **Redux** enhancing the streamlined storage of element states on slides and presentations.
- Integrated **React DND** for smooth slide and element reordering, showcasing expertise in complex UI interactions.

Financial Budget Tracking Application

(React, Java, Java SpringBoot, Java Swing, MySQL)

- Engineered an intuitive expense-sharing app with features including a user-friendly interface, group management, detailed expense logging, real-time updates, and CSV-based equally split expenses.
- Crafted RESTful services using Java **SpringBoot** for user authentication, group management, and simplified debt tracking, ensuring scalability for increased user demands.
- Implemented **React** for a dynamic User Interface and to enable real-time updates, contributing to improved user engagement.