

# GAURAV RAKESH SINHA

Boston, MA | 857-398-3073 | [sinha.g@northeastern.edu](mailto:sinha.g@northeastern.edu) | [LinkedIn](#) | [GitHub](#) | [Portfolio](#)

## Education

### Northeastern University

Boston, MA

Master of Science in Software Engineering Systems

Sep 2023 - Dec 2025

### Mumbai University

Mumbai, India

Bachelor of Engineering in Electronics and Telecommunication

Aug 2017 - Jun 2021

## Skills

**Programming Languages:** JavaScript, TypeScript, Java, Python, SQL

**Web Technologies:** ReactJS, REST API, JSON, OAuth 2.0, Node.js, Next.js, Redux, Redis, Elasticsearch, MongoDB, MySQL

**Design / CMS / UX/UI:** HTML, CSS, SCSS, WordPress, Figma, Persona, User Flow, Wireframe, Prototyping, A/B Testing

**Other / Tools:** NGINX, Cypress, JEST, Postman, technical writing, frontend development, problem-solving

**Development Practices:** Agile/Scrum, Git, Azure DevOps, Linux, Docker, RabbitMQ, AWS

## Work Experience

### Tata Consultancy Services

Mumbai, India

Software Engineer

Aug 2022 - Jul 2023

- Spearheaded the development and implementation of responsive, user-friendly web components and features for a fintech platform using **HTML**, **CSS**, **React**, and **JavaScript**, resulting in a 25% boost in user engagement
- Adapted to changing project demands in **Agile**, ensuring timely delivery of software features despite shifting priorities
- Utilized **Docker** for containerization, ensuring consistent development environments and streamlining the deployment process
- Built reusable components and used **React Hooks** for state and lifecycle management. Made API calls using **Axios** to fetch and parse JSON for DOM/CSS manipulations, leading to a 10% reduction in page load times
- Enhanced product discovery by incorporating advanced search and lazy loading, driving a **15% increase in conversion rates**
- Managed offshore teams, led code reviews, and conducted sprint demos to ensure seamless project coordination and delivery

Associate Software Engineer

Jul 2021 - Jul 2022

- Initiated the transition from **CSS** to **SCSS** for improved styling and centralized management, optimizing front-end maintainability
- Performed **end-to-end testing** with Cypress, reducing production issues by 40% and enhancing system stability
- Developed comprehensive **automated tests** with Jest for React components, increasing code coverage to 90% and reducing manual testing time by 40 hours per week
- Demonstrated proficiency in all phases of the software development lifecycle (**SDLC**), from system design to operational stability
- Collaborated** with consultants, product owners, and scrum master to design user stories, prioritize tasks, and manage backlogs
- Applied Object-Oriented Programming (**OOP**) principles while practicing clean and efficient coding methods, maintaining strong documentation standards, and contributing to best practices in software development methodologies

## Projects

### Present

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

- Created a web application using **Next.js**, enabling users to design and share custom animation-based presentations
- Enhanced application performance with **Redux** for streamlined storage of element states
- Implemented **server-side rendering** to enhance data fetching and initial page load speeds for presentation and user profiles

### Sentiment Analysis Application

(React, Flask, Spring Boot, Docker, Terraform, AWS EKS)

- Designed a Flask microservice to analyze sentiment polarity of sentences using TextBlob, returning results to the frontend
- Deployed the application in a containerized environment with **Nginx** as the web server, and used **EKS** to manage containers
- Implemented REST API endpoints with Spring Boot to handle HTTP request, functioning as a bastion server with JWT security

### Tweet Hub

(React, Python Flask, Redis, AWS)

- Developed a web application for publishing tweets, monitoring Twitter feeds, and managing user authentication using **JWT**
- Implemented **RESTful API** endpoints with Flask to facilitate real-time tweet posting, integrating seamlessly with the frontend
- Utilized **AWS** ECS and ECR for deploying containerized backend services, ensuring scalable cloud-based operations, and leveraged AWS CodeBuild to streamline the **CI/CD pipeline**