

# GAURAV RAKESH SINHA

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## OBJECTIVE

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Passionate and results-driven software engineer with over two years of experience in developing robust and scalable web applications. Proven track record in delivering high-quality projects, enhancing user engagement, and improving operational efficiency. Seeking to bring technical skills and problem-solving abilities to a forward-thinking organization to drive innovation and success

## EDUCATION

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**Northeastern University**, Boston, MA | **GPA: 3.7**

**September 2023 - May 2025**

*Master of Science in Software Engineering Systems*

**Relevant courses:** Object Oriented Design, Web Design and User Experience, Data Structure and Algorithms

**Mumbai University**, Mumbai, India

**August 2017 – June 2021**

*Bachelor of Engineering in Electronics and Telecommunication*

## SKILLS

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

**Web Technologies:** ReactJS, jQuery, HTML, CSS, SCSS, JSON, AJAX, REST API, OAuth 2.0, Material-UI, Figma

**Frameworks / Databases:** Node.js, Next.js, Redux, Spring Boot, Flask, Redis, MongoDB, PostgreSQL

**Development Practices:** Agile/Scrum, CI/CD, Unit Testing, TDD

**Cloud Computing / Tools:** Git, Docker, Kubernetes, Terraform, AWS, Azure DevOps, VS Code, Postman

## WORK EXPERIENCE

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**Tata Consultancy Services – Mumbai, India**

**Software Engineer**

**August 2022 - July 2023**

- Architected responsive and user-friendly front-end interfaces for Croma's e-commerce website using **React**, JavaScript, and AJAX, increasing website engagement by 25%
- Developed and integrated a **personalized product recommendation** engine using React, Spring Boot, and MongoDB, resulting in a 25% increase in sales and a 20% improvement in user engagement
- Successfully delivered projects using **Agile** methodology, collaborating effectively with cross-functional teams to meet sprint goals
- Utilized **Docker** for containerization, ensuring consistent development environments and streamlining the deployment process
- Enhanced product discovery by incorporating advanced search and **lazy loading**, driving a 15% increase in conversion rates
- Managed offshore teams, led peer **code reviews**, and conducted sprint demos to ensure seamless project coordination and delivery

**Associate Software Engineer**

**July 2021 - July 2022**

- Crafted a comprehensive web dashboard for Croma's business users using React and **Redux**, boosting operational efficiency by 40%
- Identified and rectified front-end issues through thorough unit testing, enhancing overall quality assurance by 30%
- Demonstrated proficiency in all phases of the **software development lifecycle**, from system design to operational stability
- Employed **Axios** for efficient API requests and error handling, leading to a 10% reduction in page load times
- Developed and maintained a suite of automated tests using **Test-Driven Development** (TDD) methodologies to ensure code reliability and stability, resulting in a 70% decrease in production bugs

## SOFTWARE PROJECTS

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### Present

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

- Created a comprehensive 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

### Sentiment Analysis Application

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

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