GAURAV RAKESH SINHA

sinha.g@northeastern.edu | +1-857-398-3073 | LinkedIn.com/sinhagaurav7 | GitHub.com/sinha-gaurav-7 | Boston, MA
Portfolio: https://gaurav-portfolio-jet.vercel.app/

Professional Summary

A Frontend Developer with over two years of experience building high-performance, accessible React and Next.js (SSR) applications using TypeScript, Redux, HTML5, and CSS3. He ensures application quality through Jest and Cypress testing and works closely with design and backend teams leveraging GraphQL, REST APIs, and WebSockets to deliver responsive, polished user interfaces.

Professional Experience

XNET Mobile | *Boston, MA*   *Full Stack Developer*   **Jan 2025 - May 2025**

- Revamped the company website UI by architecting **SSR with Next.js**, implementing responsive design and optimizing asset loading, increasing organic search traffic by 18% and improving social previews
- Displayed global XNET nodes by integrating **Mapbox** location technology, boosting network visibility and user trust
- Established an XNET Shop, enabling seamless device browsing, increasing conversions and satisfaction
- Integrated a serverless newsletter subscription using Sender.net API, reaching **10k+ subscribers** and increasing engagement by 25%

Tata Consultancy Services | *Mumbai, India*   *Front End Software Engineer*   **Aug 2022 - Jul 2023**

- Modernized the credit card fintech website by migrating 15+ legacy jQuery (ES5) pages to React (ES6), **cutting average page load times by 12%** and enabling a component-based architecture that halved feature development time
- Developed **10+ microservices**, and containerized them with **Docker** alongside the DevOps team, accelerating deployment efficiency
- Engineered scalable web solutions for product discovery by integrating **advanced search filters** and **lazy loading**, reducing bounce rate by 13% and increasing average session duration by 15%
- Optimized codebase using **reusable React components** and simplified UI logic with Hooks, reducing complexity by 22%

Tata Consultancy Services | *Mumbai, India*   *Associate Software Engineer*   **Jul 2021 - Jul 2022**

- Implemented the real-time Market Analytics frontend for the trading platform in **React** and **TypeScript** with WebSocket ingestion, time-series integration, and interactive charts, reducing average data display latency from 350 ms to 200 ms
- Boosted code coverage to 66% by implementing unit tests with **Jest** for React components, significantly strengthening code reliability
- Managed the portfolio watchlist state using **Redux Toolkit**, structured watchlist items in a normalized state, and orchestrated asynchronous price updates with Redux-Saga, reducing redundant API calls by 11%

Education

Master of Science in Software Engineering Systems | *Northeastern University* | *Boston, MA*   **Sep 2023 - Aug 2025**
Specialized Stream: *Web Design / User Experience, Data Structures, Theory & Applications of Gen-AI*

Bachelor of Engineering in Electronics and Telecommunication | *Mumbai University* | *India*   **Sep 2017 - May 2021**

Projects

Presentation Generator | *Next.js, Redux, React DND, MongoDB, TypeScript*

- Built a dynamic web application leveraging **Next.js** and **React DND**, enabling users to design and share custom animation-based presentations, increasing user engagement through interactive experiences
- Integrated **Redux** to store element states, enhancing application responsiveness and reducing state-related errors by 25%

Insurance Plan Data Indexing System | *Node, OAuth, Elasticsearch, Redis, RabbitMQ*

- Built **RESTful APIs** using Node.js and **Elasticsearch** to index and manage medical insurance plan data, achieving a significant improvement in data search efficiency and accuracy
- Utilized **RabbitMQ** to consume API requests and **Redis** for storing indexed data, with real-time data visualization in **Kibana**

Gen-AI Driven Trader Chatbot | *React, Python, Gemini, NLP, Node.js*

- Developed chatbot using React and Node.js, enabling seamless real-time interactions and **enhancing user accessibility**
- Fine-tuned a Transformer-based LLM (**Gemini**) using curated trader Q&A datasets, producing human-like investor dialogues and improving conversational accuracy by 35%

Technical Skills

Expert in JavaScript, TypeScript, Java, Python, Angular, React, Next.js and prompt engineering

Proficient in SQL for data manipulation, REST API integration, MongoDB, PostgreSQL, Redis, HTML5, CSS3, and Git

Familiar with GraphQL, AWS, Docker, Redux, Jest, Cypress, Node.js, Responsive Design, and Figma

Basic understanding of CI/CD pipelines, Redis, WebSockets, microservices architecture, and retrieval-augmented generation