

# KRUTHIKA KOLUME

Boston, MA | 617-906-1674 | [kolume.krutika@gmail.com](mailto:kolume.krutika@gmail.com) | [Portfolio](#) | [LinkedIn](#) | [GitHub](#)

A frontend/full-stack web developer graduated from a Master of Science program in Information Systems. A team player with proven decision-making and time management skills, seeking full-time roles to apply proficiency in full-stack development, specifically in React, TypeScript, and AEM.

## EDUCATION

### Master of Science, Information Systems May 2024

Northeastern University, Boston, MA

Relevant Courses: Web Design and User Experience, Web Development Tools and Methods, Data Management and Database Design

### Bachelor of Engineering, Computer Science Jul 2021

KLE Technological University, Hubli, KA, India

Relevant Courses: Web Technologies, Database Management Systems, Object-Oriented Programming, Data Structures and Algorithms

## SKILLS

**Programming Languages** – JavaScript, Typescript, Java, C, C++, Python

**Full Stack** – HTML5, CSS, Bootstrap, React, Redux, AJAX, JSON, GraphQL, JSP, Servlet, Spring, Hibernate, NodeJS, ExpressJS, NextJS

**User Experience Designing** – Figma, Framer, Balsamiq, Moqups

**Database Management** – SQL, NoSQL, PL/SQL

**Quality Assurance** – Microfocus UFT, Selenium

**Tools** – Git, Jenkins, AEM, JIRA, Confluence

## PROFESSIONAL EXPERIENCE

### Graduate Teaching Assistant – Software Quality Control & Management Jan 2024 – Apr 2024

Northeastern University, Boston, MA

- Guiding and designing quizzes and assignments for 70+ students on UFT Micro Focus, Selenium automation testing, SDLC and QA.

### Software Engineering Intern - Internship May 2023 – Aug 2023

Sealed Air Corporation, Charlotte, NC

- Developed a **Proof of Concept (POC)** using **AEM Headless** and integrated a React App with Progressive Web App (PWA) features.
- Designed and implemented a company Blueprint website, utilizing **GraphQL API** to achieve substantial performance enhancements.

### Consultant (UI Developer) Aug 2021 – Jul 2022

Mercedes-Benz Research and Development India, Bangalore - India

- Restructured **React TypeScript** codebase from **class** to **functional components**, enhancing code structure.
- Integrated **REST APIs** for new user design, resulting in a **10% expansion** of the user base.
- Orchestrated **CI/CD pipeline** in **Jenkins** for project deployment to facilitate **successful Go-Live**.
- Facilitated code modifications for frontend systems to complement backend-driven **source data migration** from legacy systems.

### Student Intern (UI Developer) - Internship Mar 2021 - Jul 2021

Mercedes-Benz Research and Development India, Bangalore - India

- Developed an information portal on car components within a dashboard by utilizing **HTML, CSS, TypeScript, and React** for implementation.
- Gained proficiency in **agile** methodology and **Git** version control system.

## ACADEMIC PROJECTS

### Movie Ticketing System, Northeastern University (Springboot | Hibernate | HTML | CSS | Java) Apr 2023

- Developed a responsive movie ticketing web application where the Admin can manage movie schedules, seat availability, and pricing.
- Leveraged Hibernate for high-performance object-relational mapping to optimize database interactions along with a user-friendly experience.

### Foodzilla, Northeastern University (MongoDB | Mongoose | ExpressJS | React | Redux | Node | CSS | Firebase) Dec 2022

- Built a MERN stack app enabling seamless online food ordering, exploring recipes, and reducing food waste with pickup scheduling.
- Implemented a user-friendly and responsive interface, integrating multiple APIs, including a payment gateway for seamless functionality.

### Podcast Streaming Application Database, Northeastern University (SQL | MySQLWorkbench) Apr 2023

- Crafted a complex ER-diagram to store information about podcasts and user preferences such as searches, ratings, and playlists.
- Created database using MySQL Workbench by creating Views, implementing Stored Procedures, Column Data Encryption, Check constraints.

### Healthmate App, Northeastern University (Figma, Moqups, UX Research methods) Dec 2023

- Designed a low-fidelity prototype and a high-fidelity version by utilizing storyboarding, card sorting, and personas for a healthcare platform.

## PUBLICATION

- Published a paper, '**Performance Improvements in Quantization Aware Training and Appreciation of Low Precision Computation in Deep Learning**' in Springer, Singapore, 2020