KRUTHIKA KOLUME

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SUMMARY

Results-driven software engineer with 2+ years of experience in web development, specializing in React, TypeScript, and Node.js. Proficient in building scalable applications. Actively seeking opportunities in front-end and full-stack development.

EDUCATION

Master of Science, Information Systems **May 2024**
Northeastern University, Boston, MA

Bachelor of Engineering, Computer Science **Jul 2021**
KLE Technological University, Hubli, KA, India

SKILLS

Programming Languages – JavaScript, Typescript, Java, Python, SQL
Web Technology – React, Redux, AngularJS, NextJS, Mongoose, Spring, Hibernate, NodeJS, ExpressJS, HTML5, CSS, Bootstrap
Cloud Services – Amazon Web Services – S3, EC2, RDS, DynamoDB, Lambda, Cloudfront, Amplify, Cloudwatch
User Experience Designing – Figma, Framer, Balsamiq, Moqups
Database Management – MySQL, NoSQL, MongoDB, GraphQL
Other Tools – Git, Jenkins, Docker, Adobe Experience Manager (AEM), Kafka, JIRA, Confluence, Selenium

PROFESSIONAL EXPERIENCE

Software Engineering Intern **May 2023 – Aug 2023**
Sealed Air Corporation, Charlotte, NC

- Developed a React app with **Progressive Web App** (PWA) features, leading to an increase in mobile user interactions due to enhanced offline capabilities, integrating it with **Node.js** for server-side rendering.
- Implemented **GraphQL APIs**, optimizing data retrieval strategies that led to a 10% reduction in page load times.
- Enhanced the application using **Redux**, implementing pagination and **caching with Redis**, reducing server load.
- Spearheaded an inter-team initiative to create a shared component library, cutting development time by 20% and standardizing UI components across multiple applications.

Front End Developer **Mar 2021 – Jul 2022**
Mercedes-Benz Research and Development India, Bangalore - India

- Refactored legacy codebase from class to functional components, streamlining component structures reducing bundle size by 15%.
- Implemented a modular design system using **Storybook** and **React Hooks**, resulting in a 30% increase in UI consistency across projects and simplified stateful logic to reduce re-renders.
- Optimized state management with **Redux** and integrated **REST APIs** into the FE, reducing application state inconsistencies by 25%.
- Orchestrated the **CI/CD pipeline** using **Jenkins** and **Docker**, decreasing deployment frequency and ensuring 99.9% uptime.
- Executed comprehensive unit tests using **Jest** and **Enzyme**, resulting in a 9% reduction in production bugs.

Front End Developer Intern **Aug 2020 – Feb 2021**
Newgen Homes, Hubli - India

- Assisted in the development of web components using **AngularJS**, contributing to faster module loading times by 20%.
- Optimized front-end performance using lazy loading and code splitting, improving page load speeds.

PROJECTS

Eatsy Green (MongoDB | Mongoose | ExpressJS | React | Redux | NodeJS | CSS | Firebase | Git)

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

Real Estate Transaction Platform (NextJS | TypeScript | SCSS | AWS Amplify | AWS S3 | GraphQL)

- Designed and implemented responsive real estate platform, fetching data through GraphQL from S3 and deployed using AWS Amplify.

Workplace Mental Health Platform (NextJS | Tailwind CSS | Vercel)

- Developed and hosted website aimed at improving workplace mental health accessible through responsive and user-friendly interface.

Movie Ticketing System (Springboot | Hibernate | HTML | CSS | Java)

- Developed movie ticketing web application which can manage movie schedules, seat availability, and pricing by leveraging Springboot and Hibernate for high-performance object-relational mapping to optimize database interactions.

PUBLICATION

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