

BHARGAVI RENGARAJAN

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EDUCATION

Master of Computer Engineering **Sep 2023 – Dec 2024**
University of California, Riverside - CGPA - 3.9/4 *Riverside, California*
Bachelor of Engineering, Computer Science and Engineering **Aug 2016 – Apr 2020**
Thiagarajar College of Engineering - 94.7% *India*

TECHNICAL SKILLS

Languages: Java, C, C++, JavaScript, SQL, NoSQL, SASS, Python
Developer Tools: VS Code, IntelliJ Idea Ultimate,
Technologies/Frameworks: Linux, iOS GitHub, ReactJS, Redux, NextJS, NodeJS, ExpressJS, Mongo, NextJs, GatsbyJs, Docker, Azure, GCP, Kubernetes, CI/CD, Redis, Selenium.

EXPERIENCE

Mr. Cooper(Nation Star Mortgage), Chennai, India

Software Engineer - II | NextJs, ReactJs, ROR, Redis, GCP **Apr 2022 - Sep 2023**

- Awarded as Challenger for achieving a 40% boost in customer engagement and a 25% increase in conversion rates by automating marketing banners and integrating Omni Channel chat during critical Oct-Dec 2022.
- Implemented scheduled Azure Pipelines to invoke APIs for static data and cache responses in Redis, to retrieve data with 65% low latency by reducing direct API calls
- Leveraged Microsoft Omni Channel Chat for enhanced customer engagement on marketing pages facilitated offers and boosted the 90% lead conversion rate.
- Developed a feedback reviews section for the personalized loan officers page in NextJs with filters and sorting options, enabling 75% of customers to reach Loan Officers.

Software Engineer - I | Gatsby, ReactJs, ExpressJs, Redis, Azure, ROR **Jan 2021 - Apr 2022**

- Accelerated banner creation by 90% through the implementation of data structure concepts for multivariate templates, utilizing technologies like Embedded Ruby, Javascript, Ruby on Rails, NodeJs, and Microsoft Azure pipelines with Google Cloud Blob Storage.
- Designed and built a middleware solution leveraging Redis to enable real-time customer data tracking, which augmented conversion rates by 30%.
- Migrated marketing pages to Gatsby, achieving a 90% Lighthouse score - enhanced UX by cutting page load.

Software Engineer - Trainee | ReactJs, Redux, NodeJs, TypeScript **Jul 2020 - Dec 2020**

- Collaborated in creating React forms and other page components for marketing campaign pages using Ruby on Rails, React which improved lead generation by 60%.
- Constructed a page with a personalized video by Idomo, boosting customer re-engagement by 35%.

Software Engineer - Intern | ReactJs, NodeJs, Mocha, Enzyme, RTL **Jan 2020 - Jun 2020**

- Covered functional test cases for Ruby on Rails services and employed Enzyme, Mocha, and React Testing Library for React components and feature tests using selenium.
- Remodeled Mr.Cooper's website to comply with the Americans Disabilities Act (ADA) resulting in annual cost savings of up to 350K USD.

PROJECTS

Air Pollution Prediction | XGboost, pandas, Keras, Flask **Jan 2020 - Apr 2020**

- Worked as part of NIT Trichy Machine Learning hackathon team where built PM10 prediction a model with the Delhi dataset with a Flask web page.
- Customizing XGBoost model, increased PM concentration prediction accuracy by 10%; model resiliency enabled leveraging of larger environmental sensor datasets.

Event Management App | ReactJs, SocketJS, NodeJs, MongoDB **Apr 2022 - Aug 2022**

- Developed a standalone full-stack web application with event registration with a chat facility
- Integrated React frontend with MongoDB Docker containers on the backend enabling scalable and maintainable data persistence.