BHARGAVI RENGARAJAN

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EDUCATION

Master of Computer Engineering, University of California, Riverside *2023-December 2024(expected)*
Bachelor of Computer Science and Engineering, Anna University, India, *2016 - 2020*

SKILLS

Programming Language: Java, Python 3, Javascript, C++, GO(Beginner), Kotlin, Ruby
Frontend: ReactJS, HTML, CSS, Bootstrap, Saas, GatsbyJs, NextJs, Tailwind, Embed Ruby
Backend: MongoDB, SQL, NodeJs, Ruby on Rails, Redis
Testing Tools: Selenium, Postman, JUnit, Mocha, Enzyme, RTL
Core Cs: Object Oriented Programming, Operating Systems, Data structure and Algorithms
AI/ML Tools: ChatGpt, Pytorch, Numpy, Gemini, Computer Vision
Code Architecture: Monolithic, Microservices,
Big Data Tools: Spark, Hadoop, Khafka
Monitoring Tools: Splunk, New Relic
Devops Tools: Docker, Kubernetes, Jenkins, Rancher, Helm
Cloud Platform: Azure, GCP, AWS, OCI
Version Control/Operating System: Github, Vscode, IntelliJ, Windows, Linux, Unix

EXPERIENCE

Software Engineer - II *06/01/2020 - 09/15/2023*
Mr. Cooper, Chennai, India

Feedback Reviews Section for Personalized Loan Officers Page in Next.js:

1. Engineered a **NextJs** page for showcasing customer feedback on loan officers; integrated sophisticated filtering and sorting features, resulting in an improvement in feedback utilization and actionable insights.
2. Enhanced the customer experience by providing transparent communication and feedback, increasing 75% of customers reaching out to loan officers.

Microsoft Omni Channel Chat Integration for Marketing Pages:

1. Integrated Microsoft Omni Channel Chat, a **microservice** using **Expressjs** and **Nodejs** in marketing Pages, providing communication between customers and sales representatives across multiple channels.
2. This resulted in a remarkable 85% lead conversion rate, showcasing the effectiveness of real-time engagement providing instant support and assistance to potential leads.

Scheduled Azure Pipelines for API Invocation and Response Caching using Redis:

1. Implemented **Azure/GCP Pipelines** to automate the invocation of external APIs for retrieving static data required by the application using **Redis** caching
2. Reducing 80% latency and improving application performance by setting up scheduled pipeline triggers and optimized data retrieval.

Automating Banner Templates:

1. Spearheaded the automation of banner template creation by implementing advanced data structure concepts for multivariate templates using **Embed Ruby, JavaScript, Ruby on Rails, Node.js, and Microsoft Azure Pipelines in conjunction with Google Cloud Blob Storage**.
2. Resulted in dynamically generating banner templates with an improvement of 90% acceleration in banner creation processes, streamlining campaign deployment timelines and improving operational efficiency.

PROJECTS

Music Generation using hand gestures: (Check it Here)
This is an open-source **machine learning project** convolutional neural network in **Keras, OpenCv** to recognize various hand gestures and retrieve associated music from an **SQLite3 web Flask**.

Air Pollution Prediction: (Check it Here)
This project is part of NIT hackathon, spearheading the development of a **machine learning** solution utilizing **XGBoost, Pandas, and Keras, Flask** Predicted with 93% accuracy using.

Statistical Inference for spatial recognition (Check it Here)
A university team project on spatial regionalization through Recursive Partitioning (PRRP) algorithm, which significantly improved upon the state-of-the-art techniques by ensured 90% high success rates and statistical reliability.