Ramyalakshmi Sundaramoorthy

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EDUCATION

Master of Science in Computer Science

Expected December 2024

CGPA 4.0/4.0

June 2019

Arizona State University, Tempe, AZ

Coursework: Foundation of Algorithm, Distributed Database Systems, Data Mining, Software Testing, Machine Learning.

Bachelor of Technology in Computer Science and Engineering

Amrita Vishwa Vidyapeetham, Bangalore, India CGPA 8.66/10

Coursework: Data Structures, Algorithms, Object Oriented, Software Engineering, Database Management, Computer Networks

TECHNICAL SKILLS

Programming Languages: Java, Python, C/C++, JavaScript.

Backend and Frontend: Spring Boot, React, Django, Maven, HTML, CSS, Node.js

Tools and Technologies:, Docker, AWS (EC2, RDS, IAM, DynamoDB, CloudWatch), Elasticsearch, Redis, Apache Kafka, Git, GitHub, Jenkins, Gradle, RDBMS, SQL, NoSQL, MySQL, PL/SQL PostgreSQL, MongoDB, Docker, Android, Map Reduce.

Others:, RESTful API, Confluence, JIRA, Microservices, Web services, SonarQube, Splunk, Design patterns, Windows, MacOS, Linux/Unix.

PROFESSIONAL EXPERIENCE

Thermo Fisher Scientific

Bangalore, India

Software Engineer II

October 2021 - December 2022

- Led backend implementation for Exodus project, driving \$3M revenue in 2 months.
- Enhanced system efficiency by integrating AWS SQS, SNS, and S3 into the Order Tracking System, improving performance by 20%.
- Conducted architectural assessments, designed, and implemented user-centric software applications using Java/J2EE Spring Boot.
- Migrated applications from AWS ECS to EKS and optimized AWS resource costs, resulted in 12% cost savings.
- Owned end-to-end database lifecycle, encompassed design, implementation, and maintenance in PostgreSQL for Applications.
- Managed and oversaw CI/CD pipelines, performed pull requests, code reviews, and executed load, unit, and integration testing.
- Ensured maintenance of applications, optimization in alignment with AWS best practices, and container methodologies.

Thermo Fisher Scientific

Bangalore, India

Software Engineer I

July 2019 - October 2021

- Owned the analysis, implementation, and ongoing maintenance of the Rules and SKUs engine, reducing project costs by round 9%.
- Developed Spring Boot applications with secure and highly reusable REST APIs, unit tests (JUnit), achieving 80% code coverage.
- Automated deployment, code quality using SonarQube and security scans in Jenkins reduced costs by ~8% for the organization.
- Led the migration of Jenkins and mentored junior team members, fostering skill development and knowledge sharing.
- Designed and implemented metrics dashboards in Splunk to monitor applications and collaborated within SAFe Agile SDLC.

Honeywell Bangalore, India Intern February 2019 - June 2019

· Created a Python Django-based tool for ECR Cycle time prediction, incorporating various machine learning algorithms and an intuitive graphical user interface GUI for data upload, model execution, and comparative analysis of model outcomes.

ACADEMIC PROJECTS

ContentSwift CDN

A content delivery network (CDN) using Python. Includes implementing caching for improved performance, security measures, and real-time monitoring. Used Kubernetes and deployed MongoDB and PostgreSQL for data management(sharing and partitioning).

Spring Boot Kafka Project

Demonstrated Apache Kafka and Zookeeper setup in docker, integrated with a Spring Boot application to publish and consume messages.

BeTheBestYou - A wellness tracking App

The Guardian Angel Android app is a holistic well-being solution, combining physical health, mental health, and personal goals, featuring anomaly detection, recommendations for nearby medical facilities, and emergency contact initiation in critical situations.

ML Tool to predict common diseases based on symptoms

Created a predictive tool for common diseases from symptoms, utilizing web scraping to extract medical data from relevant websites and building an 86% accurate ML model using Python, NLP, NLTK, and Scikit-learn.

Zomato clone (Food delivery website)

Crafted and developed a ReactJS project for a food delivery application, designed to clone functionalities of Zomato.

Sentiment Analysis

Engineered a sentiment analysis tool employing TensorFlow and deep neural networks, trained on a dataset of 40k positive and negative sentences, achieving an impressive 89% accuracy. Leveraged expertise in Python, TensorFlow, NLTK, and Django for project development.

ACHIEVEMENTS AND CERTIFICATIONS

- Awarded 'You Made a Difference' in Q2 2021 from Thermo Fisher Scientific for leading Rules and Skus Engine implementation.
- CERTIFICATION Codechef Certified Data Structures and Algorithms Programme CCDSAP.
- ICPC regionals in 2017 Asia Amritapuri double site regional contest, 104th position.
- Won 8th position in the India x Russia boot camp by ACM ICPC and Codeforces.