Ramyalakshmi Sundaramoorthy

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EDUCATION

Master of Science in Computer Science **Expected December 2024**
Arizona State University, Tempe, AZ CGPA 4.0/4.0
Coursework : Foundation of Algorithm, Distributed Database Systems, Data Mining, Knowledge Representation, Information Assurance

Bachelor of Technology in Computer Science and Engineering **June 2019**
Amrita Vishwa Vidyapeetham, Bangalore, India CGPA 8.66/10
Coursework : Data Structures, Algorithms, Object Oriented, Software Engineering, Database Management, Computer Networks

TECHNICAL SKILLS

Software Development Life Cycle (SDLC) with experience in Agile methodologies.
Programming Languages: Java, JavaScript, C/C++, C#, Python, Perl
Backend and Frontend: Spring Boot, Microservices architecture, MVC, HTML, CSS, Angular, JavaScript, Django
Others: Git, GitHub, Bitbucket, Jenkins, JDBC, MySQL, PL/SQL PostgreSQL, MongoDB, DynamoDB, RESTful API, Unit, Docker, Elasticsearch, Kibana, Redis, Node.js, AWS, SonarQube, Splunk, JIRA, Android, Matlab, Windows, MacOS, Linux/Unix, Microsoft Office

PROFESSIONAL EXPERIENCE

Thermo Fisher Scientific **Bangalore, India**
Software Engineer II **October 2021 - December 2022**

- Led the backend team of Exodus project, a pivotal driver of $3 Million revenue in 2 months.
- Enhanced system efficiency by integrating AWS SQS, SNS, and S3 into the Order Tracking System, leading to a 20% improvement in performance.
- Conducted architectural assessments, designed, and implemented user-centric software applications using Java/J2EE Spring Boot.
- Owned the end-to-end database lifecycle, encompassed design, implementation, and ongoing maintenance in PostgreSQL for GeneArt Dashboard Application.
- Managed and oversaw CI/CD pipelines, performed pull requests, code reviews, and executed load, unit, and integration testing.
- Identified opportunities to optimise AWS resource costs, resulted in 12% cost savings for the projects.
- Ensured the maintenance of applications, optimisation in alignment with AWS best practices, and container methodologies.
- Migrated the applications from AWS ECS to EKS.
- Collaborated within the SAFe Agile methodology framework.

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%
- Awarded 'You Made a Difference' in Q3 2020 from Thermo Fisher Scientific for leading Rules and Skus Engine implementation.
- Developed Spring Boot applications with secure and highly reusable REST calls for the applications, achieving 80% code coverage and a bug-free environment.
- Automated deployment, code quality using SonarQube and security scans in Jenkins reduced costs by ~8% for the organisation.
- 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.

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).

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, utilising web scraping to extract medical data from relevant websites and building an 86% accurate ML model using Python, NLTK, and Scikit-learn.

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 TensorFlow, NLTK, and Django for project development.

ACHIEVEMENTS AND CERTIFICATIONS

- CERTIFICATION - Codechef Certified Data Structures and Algorithms Programme - CCDSAP.
- Qualified to regional of International Collegiate Programming Contest in 2017 Asia Amritapuri doublesite regional contest, 104th position.
- Won 8th position in the India x Russia boot camp by ACM ICPC and Codeforces.