

Ramya Sree Kanijam

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Summary

Dedicated and skilled Software Engineer with over 2 years of professional experience, currently pursuing a Master's degree in Computer Science. Specializing in designing and deploying scalable software solutions, with a strong focus on microservices architecture and DevOps practices. Experienced in delivering cloud-based and automated solutions to enhance operational efficiency. Actively seeking opportunities to apply my expertise in full-stack development and cloud integration while driving innovation and organizational success.

Education

Texas A and M University Corpus Christi, MS in Computer Science

Purdue University, Post Graduate Program in DevOps

Jawaharlal Nehru Technological University Kakinada, B.Tech in Electronics and Communication Engineering

Research Experience

Job Role: Research Assistant in TAMUCC

Project: Rust-Based Survey Project for Distributive Concurrent Systems

- Currently developing a benchmarking tool, **RustBench**, to analyze and evaluate concurrent systems implemented in Rust.
- Aiming to identify and mitigate common concurrency issues such as **deadlocks**, **race conditions**, and **atomicity violations**, etc.,.
- Designing test scenarios to simulate real-world concurrency challenges in distributive systems.
- Exploring the performance and reliability of Rust's concurrency primitives.

Professional Experience

Software Engineer – Infosys, Hyderabad (Dec 2021 – Jan 2024)

Job Role: Developer / DevOps Engineer

1. Project: United Airlines Role: Developer

Tools Used: Spring Boot, Eclipse, Amazon MQ, Git, Data Dog, AWS Cloud

Responsibilities:

- **Migration Project:** Transitioned the project from Tibco to Java.
- **Microservice Development:** Created a microservice using the Apache Camel framework within Spring Boot to connect upstream and downstream services.
- **Manual Testing:** Utilized the Jacoco library to ensure comprehensive manual test case coverage.
- **Messaging and Queuing:** Implemented Amazon MQ for efficient messaging and queuing solutions.
- **Event Monitoring:** Used Data Dog to monitor and track application events and system health.
- **Version Control:** Managed code and versioning using Git.
- **Cloud Migration:** Executed the migration of the entire project to AWS Cloud, enhancing scalability and performance.

2. Project: Xerox Role: DevOps Engineer

Tools Used: AWS ECR, AWS Transfer Family (SFTP), AWS Lambda, AWS API Gateway (Cognito and Lambda), GitHub, IAM User Management, S3, Code Pipelines, SQS

Responsibilities:

- **Integration:** Integrated Java microservices with AWS services for improved efficiency and scalability.
- **Cloud Infrastructure Management:** Managed cloud infrastructure and automated deployments using CloudFormation.
- **AWS ECR:** Configured and managed Elastic Container Registry for Docker image storage.
- **AWS Transfer Family (SFTP):** Set up and maintained secure SFTP servers for file transfers.
- **AWS Lambda:** Developed serverless functions for backend processes.
- **AWS API Gateway:** Managed APIs with Cognito and Lambda for secure API management and authentication.
- **GitHub to AWS Migration:** Managed code migration and backups from GitHub to AWS.
- **IAM User Management:** Administered IAM users and permissions for secure access.
- **S3:** Utilized Amazon S3 for scalable storage solutions.
- **Code Pipeline:** Automated CI/CD pipelines using AWS Code Pipeline.
- **SQS:** Configured Amazon SQS for message queuing.

Publications

- **A Novel Speech Processing Based Smart Chalk** Journal of XIDIAN UNIVERSITY (Scopus),
ISSN No:1001-2400

Projects

Projects : <https://github.com/SreeSus>

Technologies

Category	Skills
Cloud	AWS (EC2, S3, ECR, Lambda, API Gateway), GCP, Docker, Kubernetes, CloudFormation Templates (CFTs)
Databases	MongoDB, MySQL, SQL,
Programming Languages	Java, HTML5, CSS3
Technologies	Spring Boot, React.js, Jenkins, GitHub, Apache Camel, Amazon MQ, SFTP, Code Pipelines, SQS, IntelliJ IDEA, Eclipse, Node.js