

Abheesht Reddy Yanamala

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EDUCATION

Georgia State University

Master of Science - Computer Science | **3.84 GPA**

Coursework: Data Structures/ Algorithms, Object-Oriented-programming, Operating Systems, Data Science, Artificial Intelligence.

Atlanta, GA

Aug 2023 - Present

PROFESSIONAL EXPERIENCE

Georgia State University

Software Engineer - Graduate Research Assistant

Atlanta, Georgia

Aug 2023 - Present

- Defined a **microservices** architecture utilizing **Java**-based **RESTful APIs** for seamless system integration, facilitating **CRUD** operations on student data, achieving a 50% reduction in system downtime during peak enrollment periods
- Formulated 15+ **Java**-based **REST APIs** to build **payment reconciliation** and transaction management systems, streamlining **financial processes** and slashing manual effort by 73%, ensuring accurate and prompt payment processing for over 20,000 student records
- Boosted system reliability and security by employing **role-based access controls** utilizing **Spring Security** and **OAuth 2.0** for secure authentication and authorization, reducing unauthorized access by 90%

CGI Inc.

Software Engineer

Bengaluru, India

Jun 2022 - Jul 2023

- Revolutionized monolithic applications into autonomous, cloud-deployable **microservices** using **Java**, **Spring Boot**, **AWS** and **REST APIs**, eliminating bottlenecks, modernizing customer profile solutions, resulting in a 3-fold enhancement in scalability
- Implemented caching with **Spring Boot Cache**, reducing database hits by 67% and external calls by 53%
- Enhanced real-time payment processing with **Apache Kafka**, achieving a 50% increase in processing speed, facilitating asynchronous communication between microservices, particularly optimizing the transaction handling framework
- Achieved seamless integration of **CI/CD** pipelines via **Jenkins** and **GitLab CI**, incorporating **SonarQube** quality gates, resulting in a remarkable 99% success rate, ultimately elevating code quality and accelerating project delivery

Cognizant

Associate

Bengaluru, India

Jul 2021 - May 2022

- Led** a team of 4 to develop scalable backend **REST APIs** using **Java**, **Spring Boot**, and **AWS** for a 5G marketplace application, leveraging **AWS** services to implement a cloud-oriented, serverless architecture and enabling seamless delivery of 5G services
- Applied design patterns such as the Observer Pattern for real-time monitoring with **AWS CloudWatch** and the Builder Pattern to streamline object creation in API services, reducing code duplication by 20% and easing future feature additions
- Integrated **REST APIs** with **API Gateway** to route requests to **AWS Lambda** functions for serverless processing, incorporating **AWS ELB** for efficient traffic distribution, and enhancing security via **API Gateway's** authentication and authorization
- Migrated from **Oracle** to **DynamoDB**, driving data scalability up by 32%, and slashing message latency by 61% using **AWS SNS**
- Optimized data retrieval and storage by deploying **Amazon S3**, cutting storage expenses by 20%, integrated **AWS CloudWatch** for real-time logging and monitoring, and streamlined deployment pipelines with **AWS CodePipeline**, automating **CI/CD** processes

Cognizant

Programmer Analyst

Bengaluru, India

Jul 2019 - Jun 2021

- Refined user-facing APIs with **AngularJS** and integrated with secure backend services, resulting in faster page load times and a smoother user experience.
- Collaborated on system design to handle high concurrency and large data volumes, employing load balancing, **AWS Auto Scaling**, and distributed caching with **Redis** to ensure consistent sub-200ms response times under peak loads
- Managed and resolved **SonarQube** identified blockers, bugs, and vulnerabilities, reducing bug incidence by 79%, while implementing automated **JUnit** tests with **Mockito** adhering to test-driven development principles (**TDD**), amplifying code coverage by 43%
- Facilitated fast-paced, **agile development** with high security and compliance standards through active collaboration with cross-functional teams, leveraging Agile tools

PROJECTS

E-Commerce Customer Data Management System | Java, Spring Boot, Angular, MongoDB

- Engineered a scalable and secure customer data management system that handled over 1 million customer records using **MongoDB** as a NoSQL database. Utilized **Mongoose** for Object Data Modeling (ODM), reducing data retrieval time by 43%.

Smart Inventory Management System with Low-Stock Alerts | Java, Spring Boot, Angular, PostgreSQL, Spring Scheduler

- Constructed a scalable inventory management system for a retail business handling over 100,000 product entries, using **PostgreSQL** as database. Integrated **Spring Scheduler** for automated low-stock alerts, reducing stockouts by 67%.

SKILLS

Languages & Databases: Java, J2EE, Python, C, C++, JavaScript, TypeScript, Linux, MySQL, Oracle, MongoDB, PostgreSQL, Linux, Redis

Web Technologies & Frameworks: Spring, React, Angular, Mockito, Maven, Spark, Kafka, OAuth2.0, Hibernate, Hadoop, Microservices

Cloud Platforms: AWS (EC2, S3, Lambda, RDS, API Gateway, EKS, CloudWatch, SNS, SQS, IAM, Route53, DynamoDB, ELB)

DevOps/CI-CD: Docker, Kubernetes, Jenkins, Git, Bitbucket, Terraform, Grafana, Dynatrace, Swagger, SonarQube, Jira, Postman

ACHIEVEMENTS

- Star Performer Award**, Cognizant : For setting up AWS services and resolving critical migration issues.
- Best Innovation Award**, TMForum's Catalyst Program : Built a cutting-edge 5G Digital Marketplace platform.