

Anusha Hadagali

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EXPERIENCE

Full Stack Developer

Merck Sharp & Dohme(via CS Optima Inc)

March 2025 - Present, USA

- Built an error-handling system for AWS Lambda functions that detected failed tasks in complex workflows, logged detailed error info, and allowed quick rollbacks to keep clinical trial data accurate.
- Wrote thorough unit tests covering all Lambda function cases, maintaining over 80% code coverage.
- Designed a workflow orchestration setup using AWS Step Functions, Lambda Function, and DynamoDB to handle different workflow types and stages, streamlining clinical data processing.
- Build a robust file upload system with Excel passing, validation pipeline, and AWS S3 integration using pre-signed URLs, implementing comprehensive error handling for participant data processing with health care applications, ensuring data integrity and security compliance.
- Ensured collision-free workflow IDs under concurrent Lambda invocations, improving data integrity and system reliability.

Full Stack Developer

CS Optima Inc.

August 2024 - March 2025, USA

- Designed and implemented SDTM-compliant, full-stack software solutions using AWS SAM and serverless architecture (Lambda, API Gateway, DynamoDB), with additional support for e-commerce and healthcare use cases, adhering to security protocols and software design standards.
- Developed efficient APIs and data pipelines using GraphQL (AppSync), RESTful APIs, and Python in AWS Lambda, enabling CRUD operations across DynamoDB and RDS, file ingestion and processing from S3, and secure data retrieval from EC2 via instance profiles.
- Built responsive front-end components using React and Material-UI (MUI) to manage and visualize CODELIST data from RDS, including features like pagination, sorting, and user-friendly interfaces.
- Integrated scalable infrastructure and automation practices using Terraform, CloudFormation, Step Functions, and Lambda triggers, ensuring consistent deployment, IaC compliance, and enhanced system reliability across environments.
- Secured cloud environments and improved system monitoring by implementing AWS PrivateLink for private Lambda-to-DynamoDB access, Lambda Authorizers for API Gateway, and centralized logging/monitoring with AWS CloudWatch, X-Ray, and structured Python logs.

Software Engineer

Mphasis - Fedex

March 2020 - August 2022, India

- Managed a microservices application using Java 8 and Spring Boot, overseeing development, testing, and maintenance, resulting in enhanced operational efficiency and cross-team collaboration.
- Adhered to the Agile software development lifecycle, emphasizing ontology integration and ensuring alignment with SDLC best practices for continuous improvement.
- Executed Unit and Cucumber tests, substantially increasing code coverage while applying Test-Driven Development (TDD) for enhanced reliability.
- Reviewed and debugged team members' code to ensure quality, optimize performance, and uphold best practices, while leading end-to-end testing and bug fixing using Splunk, enhancing team collaboration and customer experience through rapid defect resolution.
- Contributed to code reviews and retrospectives, fostering a collaborative environment and driving actionable improvements in software quality.
- Utilized CI/CD pipelines to automate the build, test, and deployment processes, ensuring smooth and rapid delivery of software to production.
- Mentored junior engineers and participated in planning discussions, ensuring project alignment with goals and effectively evaluating feature requests.
- Experience in developing, debugging, and maintaining code in a large corporate environment with one or more modern programming languages and database querying languages.
- Presented application demos to stakeholders, boosting productivity and user story completion, earning recognition through awards at Mphasis and FedEx.

Associate Software Engineer

Mphasis - Fedex

February 2019 - March 2020, India

- Successfully migrated over 1,000 Java Maven applications between data centers, ensuring seamless transitions and optimal performance.
- Established a rigorous compliance check process using specialized tools, ensuring that each application met the standards required for relocation.
- Resolved non-compliance by adjusting dependencies and configurations, ensuring all applications met required standards.
- Documented migration changes, compliance status, and application updates in MS Word and Excel, maintaining organized and comprehensive records throughout the process.
- Gathered, analyzed, and drew conclusions from large, diverse data sets to identify problems and contribute to decision-making in service of secure, stable application development.
- Adds to team culture of diversity, equity, inclusion, and respect.

EDUCATION

Master of Science in Computer Science

California State University , Fullerton · California , United States · 2024

Bachelor of Engineering in Computer Science and Engineering

Vishvesvaraya Technological University · India · 2018

CERTIFICATIONS

Solutions Architect - Associate

AWS · 2024

Microsoft Certified: Azure AI Fundamentals

Microsoft · 2023

SKILLS

Programming Languages: Data Structure and Algorithms Design | Core Java | Java8 | Python | Microservices Architecture | Spring Framework | Spring MVC | Spring Boot | RESTful APIs | Unit Testing - Junit | (OOP) Object Oriented Programming | System Design Principles | Design Pattern | AWS Terraform.

Front End Frameworks: React.

Database Management Tool: MySQL | NoSQL | Postgres.

Source Control: GitHub | Git.

CI/CD: Jenkins.

Cloud Based Platform: PCF(Pivotal Cloud Foundry) | AWS(Amazon Web Services).

Software Development Tools: Spring Tool Suite | VS Code | Postman | Splunk | Swagger | SonarQube | Eclipse.

Project Management Systems: Jira | Version Control | Agile Development | Scrum | Code Review | Sprint Planning | Agile Methodologies.