Devika M

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Education

PSG College of Technology — Coimbatore, TamilNadu
MSc. Software Systems ; CGPA: 8.9/10 — *Jun 2016 – May 2021*

Technical Skills

Languages: C#, Java, SQL, JavaScript, HTML, CSS, Go
Frameworks and Developer Tools: ASP.NET, Git, Burp Suite, Pentaho, AWS Services, Docker, gRPC
Interests: Distributed Systems, Database Internals, Data Structures and Algorithms

Experience

Software Developer - 2 — Jul 2021 – Present (SDE-2 from May 2023)
BNY Mellon Technology — *Chennai, TamilNadu*

- Migrated all the existing entitlements to Common Enterprise Entitlements Platform *(CEEP)*, resulting in improved security. Developed an Interface using .NET to facilitate this transition.
- Led the effort to automate the finance report generation process which saved operational users time by 1hr daily and improved efficiency. Developed and implemented the automation solution using *Pentaho*. Worked with stakeholders to gather requirements and ensure that the solution met their needs.
- Identified and addressed cyber security vulnerabilities, decreasing the potential cyber-attacks by 40% and leveraged *Burp Suite* to remediate identified vulnerabilities.
- Designed and implemented a component in .NET that streamlined file deletion by enabling users to easily select the relevant table name. This component provided comprehensive insights into request status and approval workflow.
- Enhanced user experience by implementing True Excel functionality, allowing direct export to Excel format instead of requiring conversion from XML using *ASP.NET*.

Software Engineer Intern — Jan 2021 – Jun 2021
BNY Mellon Technology — *Chennai, TamilNadu*

- Reduced the development time of developers by 30% by developing a Configuration Management Application to manage the configurations in the lower environments using *C# .NET, Windows Forms* and *SQL Server*.
- With key functionalities including secure login using LDAP Authentication, configuration setting viewing, amending, deleting, restoring default settings, validation, and logging, the application eliminates the need for developers to rewrite SQL scripts manually.

Developer Intern — May 2019 – Nov 2019
OhmAI Tech Labs — *Coimbatore, TamilNadu*

- Automated patient communication by integrating a fully automated chatbot in outpatient clinics using *AWS Lex, Lambda*, and *Spring boot*.
- Played a key role in developing an annotation tool using *Ruby On Rails* with 90% accuracy to efficiently analyze and annotate the chatbot logs, enhancing AI machine learning capabilities.

Personal Projects

Simple Load Balancer | *Go, Python*

- Designed and implemented a Load Balancer system to evenly distribute incoming requests across multiple servers using strategies including round-robin, static allocation, and hash-based routing.
- Added a health check mechanism into the system, enabling periodic server health assessments at 2-second intervals to ensure optimal performance and reliability. This hands-on project was to learn about the internals of Load Balancer and go-routines in Go.

Event Driven Architecture for Transactional Aggregations | *AWS, Python-Boto3*

- An experimental project to address Transactional Conflict issues arising from an influx of events in Amazon DynamoDB and resolve them by processing in a way that avoids failures.
- Initially implemented an SQS and Lambda-based architecture for transactional requests involving 3 DynamoDB tables, and encountered significant failures due to the random order of events as expected. Subsequently, redesigned the architecture to route events through Amazon Kinesis, enabling event sharding for the sequential processing of dependent events by Lambda functions. This adjustment resulted in a remarkable reduction in failure rates, improving success rates from 50% to 99.9%.
- Resources & Libraries used: *CloudWatch, DynamoDB, Lambda, SNS, SQS, Kinesis and Boto3.*