Manvitha Gopalapuram

Kirkland, WA

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Experience

Amazon   Bellevue, WA
Software Development Engineer | Java, AWS ,Typescript, Ruby, SQL   Aug 2022 - Present

- Implemented and Enhanced monitoring API to support multi AWS region deployments by leveraging AWS CDK for Dashboards and Alarm creation beyond a single AWS region. Leveraged SOLID principles and Composite Design Patterns to minimize the code redundancy by 30% which led to improvement in maintainability across the team by 80 dev hours, facilitating expansion launches world wide.
- Implemented checkout plugin entity's attribute changes for an experiment that is launched to drive consumer opt in rate into No-Rush shipping speed with discount, propagated new attribute to upstream's filtering plugin to trigger the rules upon business requirement, with all the existing Test Data model modifications to en-corporate the XML entity changes consistently propagated upstream, this led to an overall 6.1% adoption with +310 bps vs forecast.
- Designed and Implemented an e2e data Logging infrastructure to intercept and transform data in the required log schema to store in the S3bucket through Kinesis firehose for the business precision analysis of the requests handled by the service.
- Used Mockito for Unit Testing, improved overall line and branch coverage to 90% in a coral - naws API service on Java and Guice Framework.
- Implementation of deprecation of a Cart Context Summary API and rebuilt with individual wrapper accessors using a Query Based Language.
- Worked as a POC in evaluation of the latency of the batch calls to an Offer Service Provider to determine if the API's overall operational latency of ~70ms to dependency fan-out call is within allocated budget.
- Designed and implemented solution to pre-compute problems in Datapath related to cart Context and deliverySignal APIs on check out plugin.
- Pitched and implemented on a hackathon project idea to reward Customer Choices by implementing an API that renders the cashback/balance points to their account .

Accenture   Pune, India
Application Development Analyst | C#, .Net, MVC, SQL, CSS, Express   Jul 2018 - Dec 2020

- Worked as a DuckCreek Policy Content Developer using .Net, Express, SQL, postman, specialized in rating, transact and pages.
- Developed rating algorithms in insurance policy premium generation based on state, involved in page design, forms. Worked on an end-to-end quote implementation.
- Customized Policy admin System as per business requirements. Developed Class Map, Admin, Manager functionalities and Unit Testing.
- Worked as both frontend and backend developer on e2e quote/ insurance policy creation, worked on quote decline, referral, transact, pages and forms.
- Implemented field mapping and page designing in Author using MVC, Express.

Projects

Jarvis - Movie Recommendation Application: | Java, MySQL, Android Studio

- Designed and built android application using Java and android studio with the TMDB, implemented search, view, add favorite movie, view trailer, add review api to the application.
- Utilized a MySQL database to store and manage the recommendation data, optimized queries for performance.

Design of University Department Application: | Java, Spring Boot, H2 Database, MySQL

- Developed a web application using REST APIs to perform CRUD operations in retrieving, updating, posting department details using Spring Boot framework.
- Created Entity, Service, Repository Layers using various annotations and implemented API methods and established connection to H2 database using JPA dependency. Unit Tested all the API's using the REST client Insomnia.

Conway's Game of Life: | React, Javacript, CSS

- Simulated cellular automaton principle, Conway's Game of Life, an algorithmic game where cells evolve based on predefined rules of neighbouring cells.
- Implemented core logic, GUI to apply rules of cell survival, birth, and death based on neighboring cells.

Skills

Programming: Java, TypeScript, REST API, Ruby, Go, AWS(API Gateway, S3, Kinesis Firehose, SNS, SQS, Serverless, CloudFormation, ECS, Lambda, DynamoDB, Cloudwatch) Javascript, Python, Cassandra

Software: Git, Gradle , Webpack,IntellijIdea, Guice, Spring Boot, JUnit, Mockito, React, Spark, Microservices, Linux, Docker, Kubernetes, SOAP, HTML, REST, CSS3, CI/CD, JSON, XML

General: Data Structures, Agile, Algorithms, Object-Oriented Programming/Core Java, Debugging, System Design

Education

University of Texas at Arlington   Arlington, TX
Master of Science in Computer Science   Jan 2021 - Aug 2022

Coursework: Design and Analysis of Algorithms, Operating Systems, Web development, Advanced Database Systems, Computer Networks

Sreenidhi Institute of Science and Technology   Hyderabad, India
Bachelors of Technology in Electronics and Commnunication Systems   July 2014 - Aug 2018