Vivek Sumanth Chintakula

312-709-6371 | viveksumanth97@gmail.com | Santa Clara, CA | LinkedIn

SUMMARY

A Computer Science Master's graduate with **2 years** of experience in software development. Skilled in creating, deploying & debugging cloud-based applications for large user bases. Proficient in **Python, Java** and holds an AWS Developer Associate certification and proven ability to work independently and as part of a team to deliver high-quality software.

WORK EXPERIENCE

Amazon Web Services (AWS) - Software Engineer I

Oct 2022 - Oct 2023

Tech: Java, SpringBoot, AWS S3-SDK,

Low-cost Storage for Audit logs

- Designed cost-effective solution for storing Audit logs through extensive cost analysis across various S3 Storage classes.
- · Created a Spring Bean to store S3 bucket configurations and seamlessly integrated Bean with AWS-S3 SDK.
- Achieved annual storage savings of up to \$1.7 million by storing Audit logs in S3 Glacier Instant Retrieval storage.

Generate Application logs in Native JSON

- Optimized log retrieval in a security module (HSM) by generating application logs in the native Apache Log4j 2 JSON layout.
- Resolved bottlenecks in Log puller service by eliminating the CPU-intensive log format conversion and improved log retrieval performance by **50**%.

Credential Migration for metric publishing

- Improved system's security by implementing a Java-based credential solution to generate rotating team-specific credentials.
- Prevented potential security breaches by proactively identifying and eliminating the risk of using hard-coded credentials.
- Migrated to new credentials using feature flagging without any loss of metrics in any production regions.

Log Pulling Optimization

- Analyzed the distributed partitioned workflow architecture for log pulling and identified the sequential bottlenecks.
- Increased log pulling speed by **70%** by implementing asynchronous multithreading using Java in Log Puller Service.

Zotec Partners - Software Engineer I

Feb 2022 - Oct 2022

Tech: Python, Rest APIs, Redis, Lambda, SQS

- Improved the efficiency of health care data access by developing REST APIs using Python FastAPI framework and facilitated seamless interaction with various healthcare operability resources.
- Reduced retrieval time of patient-specific details by **50%** by mapping data to patient metadata stored in DynamoDB.
- Enhanced healthcare database management by implementing payload validation to ensure data was consistent & accurate.
- Protected on-premises DB from heavy workloads by engineering throttle management system using Lambda, SQS & Redis.
- Employed Pytest framework to develop comprehensive unit test cases, utilizing Moto & Monkeypatch techniques to mock AWS resources for testing purposes.

EDUCATION

Masters, Computer Science - Software Engineering

Jan 2020 - Dec 2021

Illinois Institute of Technology, Chicago - IL

GPA: 3.9/4.0

Bachelors, Computer Science

Aug 2015 - Apr 2019

JNTUK- Grandhi Mallikarjuna Institute of Technology, AP - India.

SKILLS

Programming Languages Python, Java

Certifications AWS Developer Associate - Certified ✓

Methodologies Object-Oriented Programming, Multithreading, Agile, CI/CD, SDLC

TechnologiesSQL Alembic, Node.js, Express, Kafka, MongoDB, Git, PostgreSQL, Docker, Spring Boot, LinuxRelevant CoursesData Structures & Algorithms, Software Project Management, software test engineering,

Design Patterns, Serverless development.

PROJECTS

Search Engine Optimization | Tech: Python, Data Structures, Multithreading.

- Processed tweet data by applying Inverted Index Data Structure on 10K+ tweets forming term document incidence table.
- Optimized the query search by 87% using multithreading and searching for closest match in term document incidence table.

Application Development using SDLC and CI-CD Pipeline 🗷 | Tech: Code Pipeline, Code Build, Elastic Bean Stalk, Docker.

- Developed a minimal CRUD Web-Application using Mean Stack and Postgres, with Nginx as a web server.
- Configured dynamic application routes and generated separate docker images for each environment.
- Used AWS code pipeline for CI/CD, automated unit testing, building, and deployment with CodeBuild and Elastic Beanstalk

Data Pipeline for Sentiment Analysis | Tech: API Gateway, Lambda, Kinesis, Comprehend, Tweepy, Bigdata.

- Collaborated with a team of three to perform sentiment analysis by scraping 50K+ tweets using Tweepy API.
- Built a Big Data processing pipeline on AWS Serverless using API Gateway, Lambda and Kinesis.

Streaming Live Tweets and Kafka to Elastic Search 🗗 | Tech: Kafka, Tweepy, Elastic Search, Python.

- Utilized the Tweepy API to stream real-time tweets from Twitter into a Kafka Produce.
- Achieved higher processing efficiency by aggregating and compressing data before sending it to Kafka Consumer.

Super-store Dashboard ♥ | Tech: Mean Stack (MongoDB, Express, AngularJS, Node.js.), Highcharts.

- Developed interactive AngularJS dashboard displaying dynamic Superstore data trends using Highcharts.
- Deployed REST APIs, interfacing with MongoDB, to efficiently handle user requests and provide JSON data for visualization.