

Mohamed Faizal

Software Development Engineer

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Experienced Software Engineer with a proven track record in developing and maintaining resilient, scalable software solutions across a wide range of technologies. Highly skilled in Python, GoLang, and microservices architecture, with a strong background in leading deployment initiatives, enhancing performance, and establishing effective monitoring solutions. Expert in designing fault-tolerant data storage systems, creating efficient caching mechanisms, and driving real-time event processing.

Proficiency

- **Programming Languages:** Golang, Python
- **Frameworks:** Gin, Atreugo, Flask
- **Cloud Technology:** AWS - S3, ECR, ECS, CloudWatch, DynamoDB, Textract, Lambda
- **Messaging Queue:** Pulsar
- **Caching mechanism:** Redis
- **Dockerization:** Docker, Kubernetes
- **Database:** Mysql

Experience

● Freightify Logistics | Chennai

April 2022 - Present

Global Rate Synchronization

As a Software Development Engineer, I led the conceptualization and creation of a robust application focused on consolidating freight rates data from diverse systems. Utilizing Golang, Pulsar, Redis, and DynamoDB, I have created specialized worker services tailored to the corresponding tasks.

- Accomplished in crafting backend services using Atreugo with Golang. Proficient in creating microservices-based applications in Python and Golang, adhering to industry best practices for scalability and maintainability.
- Engineered robust and scalable applications, employing Golang's effective concurrency model and optimization techniques for enhanced performance.
- Utilized Pulsar for seamless real-time event processing and data streaming, ensuring effective management of substantial data volumes.
- Conceived and deployed data storage solutions with exceptional scalability and fault tolerance, incorporating DynamoDB and MySQL.
- Implemented Redis as a caching layer to enhance data access efficiency and elevate application performance.
- Skilled in deploying microservices architecture on Kubernetes and ECS for streamlined management.
- Proficient in establishing comprehensive monitoring and alerting systems through AWS CloudWatch, effectively reducing the mean time to detect and resolve issues.
- Skilled in crafting dashboards using Grafana, configuring timely alerts through Slack and email notifications. Additionally, adept at developing Retool dashboards for internal applications to streamline data visualization and insights.
- Utilized various AWS services including ECS, ECR, S3, CloudWatch, DynamoDB, Textract and more.

Dynamic data extraction and transformation

- Implemented an automation service proficient in handling diverse file formats, including Excel and PDF.
- Utilized AWS S3 for storing the input files.
- Employed AWS Textract service to extract metadata from files, enhancing precision in data extraction.
- Engineered a dynamic transformation service utilizing obtained metadata, ensuring adaptability to various types of extracted data.
- Incorporating chatGPT, and fine-tuned the model with proprietary logistics data to enhance system intelligence and efficiency.

● **Tata Consultancy Service | Chennai**

July 2019 -March 2022

Insurance web application (Data Processing layer)

- Leveraged Pandas for comprehensive pre-processing, skillfully transforming unstructured data into the specified format tailored to customer requirements.
- Applied data manipulation techniques to ensure data quality and alignment with customer expectations.
- Structured the code into a package for seamless utilization by other systems.
- Established pipelines for the same for automated building and execution.
- Utilized Docker to create an image from the code and then pushed it to AWS ECR.
- Employed Flask as the web framework to develop and deploy a robust data transformation service. Integrated Flask to provide a scalable and efficient web interface for seamless interaction with the data transformation functionality.

● **Education**

Sri Manakula Vinayagar Engineering College

B.Tech ECE (2015-2019)

CGPA - 8.65

Fatima Higher Secondary School

HSC (2014-2015)

Percent - 87.58

Fatima Higher Secondary School

SSLC (2012-2013)

Percent - 92.4