Christopher DeSilva

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Summary

I'm a versatile software engineer adept at aligning technical solutions with business objectives. I work with all levels of the stack, especially with Spark and streaming services like Kafka, and also have experience with service management using cloud providers alongside kubernetes and docker. I have experience in data science, having applied machine learning to solve problems at startups.

Senior Big Data Engineer | SAIC (formerly Koverse)
San Jose, CA | *September 2021 – Present*

- Collaborated with commercial and internal clients and stakeholders such as Anheiser-Busch, Takara Bio, American Express and others to understand their needs and develop addons for loading and retrieving data in the form of normalizations/transformations/connectors for the Koverse platform in Java, including SQL tabular formats to NoSQL formats

- Developed and maintained Spark queries for said clients to analyze data at volume using Java Spark

- Developed video storage and playback on the Koverse data platform using Apache Kafka, Gradle, springboot/Java, k8s, Ffmpeg, and OpenApi

- Deployed and maintained Koverse deployments for customers on AWS using EKS

Data Engineer | AES Defined
AZ | December 2018 – December 2021

- Worked with a Professional Engineer to design and develop a web service to ingest, process, and display data relating to energy consumption.

  - Designed databases on AWS and implemented ingestion/normalization pipelines with CI/CD integration, utilizing AWS and Python

  - Developed dashboards for IoT devices, forecast price alerts, and predictive pricing models using Dash/Python, AWS, sklearn, pandas, and prophet

Data Scientist | bioSyntagma
AZ | January 2019 – March 2020

- Implemented ETL pipelines, GAN models, and exploratory unsupervised ML techniques using Python, Dash/Python, sklearn, and pandas

Programming Languages: Python, Java/Scala, Shell, SQL (Various), NoSQL (Spark/PySpark, Mongo, Neo4j), Javascript/Typescript/Node.js/React.js, Golang
Tools: Apache Kafka, Apache Accumulo, Apache Airflow, Jira, Git/Github, Feathers, OpenApi, Springboot, Maven, npm, pip, skaffold, Dataiku, Lens, Postman, MinIO, Tesseract, FFmpeg
Deployment: AWS, Docker, docker-compose, k8s

Education

- **Certificate of Data Science – Galvanize** | Feb 2018 – May 2018
- **BS – Construction Management – ASU** | August 2010 – January 2015

Clearance level

- TS