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## Christopher DeSilva

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### Summary

I'm a versatile software engineer with a Top Secret clearance, adept at aligning technical solutions with business objectives. I work with all levels of the stack including backend development, data engineering, and frontend, and also have experience with the service management aspect using cloud providers alongside kubernetes and docker. I also have experience in data science, having applied machine learning to solve problems at startups.

### Senior Big Data Engineer | SAIC (formerly Koverse)

*Remote | September 2021 – Present*

- Primary developer on a security-sensitive project for the US Navy
- Developed cloud-based tools for NOAA to help track and manage cloud spend
- Determined key service level constraints and solutions to serving users for SAIC's in-house data platform: SLA benchmarking and analysis of the Koverse data platform using Grafana K6, Prometheus, Grafana dashboards
- Collaborated to develop video storage and playback on the Koverse data platform, a key desired feature of many US administrations. Tools used: springboot/Java, JS React/Typescript, JS Node/Typescript, Python, k8s, Feathers, Ffmpeg, OpenApi, and Apache Kafka
- 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
- Led and collaborated with internal teams to develop and present demos to external clients for US government clients like the FAA and US Space Force, resulting in the team's advancement through contract down-selection

### 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

### Founder's Workshop | Data Scientist

*AZ | October 2018 – December 2019*

- Engineered a Recommender system in Neo4j, conducted technical investigations, and benchmarked facial recognition APIs from AWS and Azure

**Programming Languages:** Python, Java/Scala, Shell, SQL (Various), NoSQL (Spark/PySpark, Mongo, Neo4j), Javascript/Typescript/Node.js/React.js, Golang

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**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

### **Other:**

- TS clearance