

# Daniel Espinoza

SOFTWARE DEVELOPER

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“The mystery of life isn’t a problem to solve, but a reality to experience.” - Frank Herbert

## Summary

Knowledgeable Software Developer with in-depth knowledge of Python, Java/Scala, Golang and SQL. Skillful in developing, optimizing and re-working systems to meet specific customer requirements. Expertise in writing codes in various languages, libraries, frameworks and integrating software components.

## Work Experience

### Lockheed Martin Corporation

Fort Worth, TX

DATA ENGINEER

Mar. 2021 - Current

- Develop and maintain real time data pipeline for collection Industrial IoT (IIoT) devices using Python, AWS Lambda, AWS Kinesis, InfluxDB, Apache Hive, Presto
- Oversee and maintain IIoT real time monitoring server environment (Grafana, InfluxDB, PostgreSQL, AWS Resources)
- Support Data Scientist with development of analytic dashboards on Grafana and Tableau and create batch jobs to pre-process IIoT data

### Wipro Ltd.

Plano, TX

PROJECT ENGINEER

Mar. 2019 - Feb. 2021

- Worked as Data Engineer for Capital One (Jun. 2019 - Dec. 2020) and Senior Frontend Developer for CBRE (Jan. 2021 - Feb 2021)
- Designed, built, implemented and maintained daily and live reports using Apache Spark, Golang, Python, Snowflake, MemSQL, Cassandra.
- Migrated data workflows into Apache Spark with MemSQL from Golang Microservice with Casandra to improve reliability and refresh Tableau reports at 5-minute intervals instead of 30-minute.
- Designed and implement Python scripts for automating ETL processes; triggering data batch jobs, computation and Tableau refreshes in Apache Airflow.
- Develop and maintain Java/Scala Spark project for data batch jobs, copying data from data lake to MemSQL and vice versa running on AWS EMR.
- Designed and developed AWS Lambda functions to monitor data streaming and batch jobs and trigger PagerDuty alerts for delays.
- Gathered requirements, prototyped and publish new Tableau reports with Loan Servicing Directors and Data Analyst.

### University Of Texas Rio Grande Valley

Edinburg, TX

UNDERGRADUATE RESEARCH ASSISTANT

Jun. 2018 - Dec. 2018

- Supported Dr. Tomai and Dr. Butler research into Virtual Reality, Computer Visualization/Vision and Machine Learning with a grant from Department of Homeland Security, *An Expert Systems Approach to Feature Recognition for Marine ROV Operation with Virtual Reality*.

### University Of Texas Rio Grande Valley

Edinburg, TX

ASSISTANT TEACHER

Jun. 2017 - Aug. 2017

- Taught summer Python Programming to a class of high school juniors and seniors for The Texas Prefreshman Engineering Program

## Education

### University of Texas Rio Grande Valley

Edinburg, TX

B.S. IN COMPUTER SCIENCE

Aug. 2016 - Dec. 2018

- GPA - 3.65

### South Texas College

McAllen, TX

A.S. IN COMPUTER SCIENCE

Jun. 2013 - May 2016

- GPA - 3.7

## Skills

**Programming** Python, Scala, Golang, Java, JavaScript, SQL, LaTeX

**Big Data** Apache Spark, Apache Hadoop, Apache Hive, Apache Airflow, Presto

**Frameworks & Libraries** Flask, Pandas, NumPy, Tensorflow, TesseractOCR, OpenCV

**DevOps** AWS, Docker, Kubernetes, GitLab CI/CD, Vagrant, Ansible

**Languages** English, Spanish