# TANER KIRAL
## DATA ENGINEER

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## Summary

Budding Data Engineer with a demonstrated history of strong analytics and engineering skills. Skilled in Python, SQL, AWS, Machine Learning and Statistical Analysis.

## Skills

**PROGRAMMING**
Python
SQL
LaTeX
Git

**MATH AND STATISTICS**
Statistical Modeling
Operations Research

**DEPLOYMENT**
Docker
AWS
Azure

**VISUALIZATION**
PowerBI
Python
Tableau
Jupyter

**MACHINE LEARNING**
Regression
Classification
Natural Language Processing
Image Classification
Neural Networks
Deep Learning

## Projects

**Long Running Queries WLM**
Built a WLM for our ETL systems to prevent excessively long running queries on our production databases. Utilized an Amazon internal scheduling service as well as our production hosts to deploy the WLM.

**Server Cost Model**
Constructed linear programming model to determine optimal purchase amounts and timings; implementation of model would save up to 5 million dollars of ~65 million dollar plan.

**Spider Detection**
Used data from spiderid.com to build data set. Constructed binary image classifier using CNN-VGG16 models from the data set to determine which spiders are venomous. Used classifier to power app to help users identify dangerous spiders.

**Book Classification**
Used Project Gutenberg books and classifications to be used to train and build model. Constructed high accuracy NLP multi-classsification classifier using TruncatedSVD to determine which of those books belong to which genres.

**Code Guardrails**
Worked on building and modifying ETL infrastructure to prevent failures that resulted in major customer impacting failures. Had potential to reduce customer impacting severity 2 issues by 60 %.

## Experience

### PeopleInsight Team of Amazon Inc.
Seattle, WA
Support Engineer
Sept. 2019 to July 2020
- Responsible for supporting over 7000 data pipelines
- Developed Long Running Query WLM for Redshift Clusters using Python and an Amazon internal scheduler
- Developed Code Guardrails for ETL infrastructure to prevent customer facing failures

Seattle, WA
Data Engineer
July 2020 to Current
- Responsibilities of Support Engineer, in addition to responsible for building out various ETL pipelines and infrastructure
- Built out multiple pipelines for Automation (Turing) team to provide customers with necessary data

### Murphy & Associates - Microsoft COSINE Engineering Businesses Services
Redmond, WA
Data Analyst
Oct. 2017 to Mar. 2019
- Responsible for building PowerBI Dashboards and related database solutions for Executives
- Worked with Microsoft COSINE Engineering Business Services to develop Budgeting Tool; responsible for testing and data maintenance using SQL Server
- Developed OPEX calculator using Python and C# for SQL database
- Developed Azure SQL databases and worked in Azure for database configuration and script automation

## Education

### Metis Data Science Certificate Program
Apr. 2019 to June 2019
Completed an accredited, immersive 12-week program that teaches data science theory and technique in a real-world context by requiring a portfolio of projects in a collaborative environment. Designed and delivered 5 projects using machine learning, statistical modeling and data visualization.

### Wabash College
Aug. 2013 to May 2017
BA Pure & Computational Mathematics

## Awards

Wabash College Department of Mathematics and Computer Science - J. Crawford Polley Prize in Mathematics   2017

PeopleInsight Team of Amazon -Just Do It Award   2020

Wabash College Department of Mathematics and Computer Science -
Wedgeworth Lilly Library Research, Scholarship & Creativity Prize   2017