Dennis Simon

6322 Truckee Court, Newark, CA, 94560

☎ (510) 402-8136 | ✉ dennisvsimon@outlook.com | 🏠 dennissimon.me | ⌨ DVSimon | in dennisvsimon

Education

San Jose State University   *San Jose, CA*

MASTER OF SCIENCE IN SOFTWARE ENGINEERING: DATA SCIENCE, GPA: 3.7/4.0   *Jan 2018 - Fall 2019*

- *Relevant Coursework*: Data Mining, Large-Scale Analytics, Autonomous Vehicles, IoT, Enterprise Distributed Systems
- *Remaining Coursework*, Masters Project/Thesis

San Jose State University   *San Jose, CA*

BACHELOR OF SCIENCE IN COMPUTER ENGINEERING, GPA: 3.2/4.0   *Aug. 2017*

Skills

Proficient Languages   Python, SQL(Proficient) HTML, CSS
Familiar Languages   C#, C++
Frameworks   PostgreSQL, Git, Linux, Flask, Jupyter, AWS, GCP, TensorFlow, Tableau

Projects

Disney Machine Learning Wait Time Web App

PYTHON, ANGULAR, HTML, CSS, XGBOOST ALGORITHM, AWS, GOOGLE MAPS API

- Machine learning web application to predict Disney World attraction wait times.
- XGBoost gradient boost machine learning algorithm to predict wait times of each attraction in park.
- Implemented park and selectable attractions onto interactive map with Google Maps API.

Real Time Driving Object Classification

PYTHON, KERAS, TENSORFLOW, YOLO, ROS, DOCKER

- Computer vision application for real time detection and image classification of objects in a driving simulator.
- Predict objects with video input in real time and draws predictions in video stream.
- Converted YOLO object detection algorithm to Keras model for object classification.

SF Predictive Analytics Crime Classification

PYTHON, JUPYTER, XGBOOST LIBRARY, SKLEARN LIBRARY, AWS

- Predictive analytics pipeline to classify crime types in San Francisco based on past incidents.
- AWS EC2 server configuration for preprocessing and training with large dataset.
- Trained XGBoost machine learning algorithm to predict the type of crime committed for new incidents.

Spartan Messenger

PYTHON, GRPC, PYCRYPTO LIBRARY

- GRPC based Messenger application that allows for secure group chat between terminals with verified user login.
- Implemented LRU Caching Mechanism from scratch to store group messages in memory throughout user sessions.

Experience

Aeris Communications   *Santa Clara, CA*

SOFTWARE QA ENGINEER   *Aug 2015 - Dec 2015*

- Created technical documentation for testing web portals in JIRA.
- Created test plans and test cases for testing of future client web portals.
- Tested web portals for usability elements across multiple platforms.

Aeris Communications   *Santa Clara, CA*

SOFTWARE DEVELOPER   *May 2015 - Aug 2015*

- AWS Archive Retrieval - Created tools to search and retrieve archived data from mass storage dump on Linux AWS EC2 servers.
- CSV Dataset Merge - Tool to merge company datasets on product ID, customer name, etc.
- Worked alongside engineers to develop technical documentation for company projects in JIRA.