Eugene Lee

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Education

Master of Science in Computer Science, *California State University, Fullerton* August 2020 – May 2022

Bachelor of Science in Computer Science, *California State University, Fullerton* August 2015 – July 2020

Skills

Languages: Python, R, MySQL, C++, PHP, MATLAB, Javascript, HTML/CSS, BASH
Frameworks/Libraries: PyTorch, Tableau, Scikit-learn, Numpy, pandas, Angular, Ionic
Tools: Git, RStudio, Docker, Xcode, Postman

Experience

Association for Computing Machinery-Women, CSUF | Webmaster January 2020 – Present
Python, Flask, JavaScript, HTML/CSS
- Integrated calendar functionality on website to boost attendance in weekly meetings.
- Organized virtual club meetings and led conversation around discrimination in computing, mental health, and stress management.

Optimus Educational Services | Software Developer and Python Instructor July 2019 – August 2020
TypeScript, JavaScript, PHP, MySQL, git, Python, HTML/CSS, Xcode, Postman

- Added web page caching system and refactored MySQL queries to reduce average load time from 12 seconds to 2 seconds on web pages.
- Launched iOS application to help parents and teachers monitor academic performance.
- Implemented iOS notifications by integrating OneSignal API.
- Created cross platform student progress tracker to monitor student success on iOS and web.
- Developed automatic invoice tool to replace manual invoice generation.
- Updated API's to scale to multiple branch locations.
- Led weekly Python class and coding projects for 10 students.

Projects

Spam Classifier July 2020 – August 2020
MATLAB
- Built a spam classifier with an SVM using Gaussian Kernel that achieved 98% test accuracy in identifying spam emails for the Andrew Ng Coursera Course.

Recommender System July 2020 – August 2020
MATLAB
- Defined cost function and gradient for a recommender system that guesses new users' ratings for movies they have not yet seen for the Andrew Ng Coursera Course.

Covid-19 Data Tidying and Analytics March 2020 – June 2020
R, Rstudio
- Cleaned multiple datasets to prepare for analysis.
- Performed multivariate linear regression to explain variation in mortality between countries due to difference in demographics and hospital infrastructure.

Traffix January 2020 – May 2020
Python, XML
- Developed a Q-Learning algorithm using Python, TensorFlow, and Keras intended to improve cumulative wait time for vehicles in a simulated road.
- Defined a Q table which allowed an agent to assess the quality of an action based off of its experience.
- Implemented algorithm with CUDA to utilize GPU.
- Defined training and test environments using XML and the Simulation of Urban Mobility.