1166 Glenwood Dr.
Millbrae CA, 94030
(650)-200-9488

TERRENCE HO

terrenceho.books@gmail.com
www.github.com/TerrenceHo
https://terrenceho.github.io

EMPLOYMENT

Software Engineer Intern **PennyMac Loan Services, LLC** **Summer 2017**

- Created Random Forest model to predict foreclosure and failure of mortgage loans.
- Joined two different tables of data to produce a more representative dataset of past customers
- Increased prediction accuracy of previous model by 8% by decreasing the overfitting of the model

Data Analysis Intern **Socos Labs, LLC** **Summer 2016**

- Scraped socioeconomic/educational statistical data and preprocessed data for analysis.
- Attempted to fit data to Linear Regression models and make predictions

EDUCATION

Los Angeles, CA **University of California, Los Angeles** **Fall 2016 – May 2020**

- B.S.E in Computer Science, expected May 2020.
- Coursework: Intro to Computer Science; Data Structures; Intro to Computer Systems Organization

TECHNICAL EXPERIENCE

Projects

- **IIoT (In Progress – 2017):** Team project to build an iOS app for the Indian company *Klok Technologies*, which will upload data from construction vehicles and analyze the data for patterns to help the company cut costs. I am building a RESTful API for the iOS app to interact with the database, and plan to make a machine learning model to extract insights from the data. *Golang, Swift*
- **PhoGo (2017):** Full stack website where users can upload and create albums to store photos. Created custom MVC archietecture without a framework, and hosted the app on Digital Ocean. *Golang*
- **Neural Net (2017):** Created a custom neural net to classify handwritten digits from scratch using only the Numpy library. Achieved 95% accuracy with advanced features such as dropout, L2 Regularization, decaying learning rate, and the momemtum optimization method. *Python*
- **PredictiBill (2017):** Built at LAHacks, PredictiBill is a machine learning model that takes in the text of a legislative bill, looks through Twitter to compile sentiment scores of the bill, and passes it through a prediction model to predict the likelihood of passing. I extracted keywords from bills using Azure text analytics, processed the data, and helped create the model in Tensorflow. *Python*
- **SentiMedia (2017):** Built at HackTech, SentiMedia takes a YouTube video and analyzes its comments for positivity/negativity and returns a weighted score based on a NLP model. Our team created the website with Flask. I contributed to the creation of the NLTK sentiment analysis model, template design, and general python code to serve the web pages. *Python, HTML/CSS*
- **Synaesthetic (2017):** A music visulization website created with p5.js, d3.js, and WebGL as part of a club project. P5.js was used to design the website and script movement of objects. I implemented a color-flashing mechanism triggers when it detects a high volume of base. *Javascript, HTML/CSS*

LANGUAGES AND TECHNOLOGIES

- Languages: Python; C++; Golang; Javascript; HTML/CSS; Java; Matlab/Octave;
- Scientific Python stack; Tensorflow, Flask; Bootstrap; p5.js; Android;