






# Kyle Hays

 San Jose, CA  
 (408) 691-4161  
 kyle.m.hays@gmail.com  
 <https://www.linkedin.com/in/kylehays800/>  
 <https://github.com/CruddyShad0w>

## Education

### California State University at Monterey Bay

*B.S. in Computer Science - Data Science • Graduated: Fall 2019*

## Projects

### Stock Trade Analytics Dashboard (*Angular / Flask / Python / MongoDB*)

- Developed a dashboard for stock traders to monitor and execute live trade's on the stock market. Built in [Angular](#) utilizing [microservice](#) architecture in the backend. Contains a [Python/Flask API](#) endpoint for live stock trading as well as [Java/MongoDB](#) for user credentials and data storage.

### Soccer Match Outcome Prediction (*Python / JavaScript / PHP / HTML*)

- Website developed in [HTML](#), [JavaScript](#), [AJAX](#) and [PHP](#) to allow users to get Soccer match predictions utilizing [machine learning](#). Developed with [Microservice](#) architecture to host M.L. predictions on a [Flask](#) endpoint. Match insights were generated from multiple ML models including [Gaussian Naive Bayes](#), [random forest](#), [K-nearest-neighbors](#), and [Gradient Boost](#). Generated an [SQL](#) relational database for data and user storage on Maria DB.

### Polr (*React / Java*)

- Constructed an app that brings modern convenience to our democratic process by providing multiple avenue for seamlessly finding detailed polling information. Utilized [React.js](#) combined with [microservice](#) architecture with a [Java/Spring boot](#) backend. Integrated SMS functionality using [Twilio's](#) Messaging platform. Successfully deployed using [Heroku](#) and [git-lab](#)

### Tensorflow - RNN (*Python / TensorFlow*)

- Developed an RNN to perform text prediction based on a user's input and autocomplete the sentence. Utilized [Pandas](#) and [Scikit-Learn](#) to preform [ETL](#) and preprocessing of the data. Generated a parameter optimization search to find the best model in [TensorFlow](#).

### Credit Card Default Prediction (*Python / Scikit-Learn*)

- Constructed a model to correctly predict if a credit card customer will default on a payment with a confidence level output. Utilized [Pandas](#) and [Scikit-Learn](#) to preform [ETL](#) and preprocessing of the data. Performed a Grid Search analysis of parameters and models to produce the best fit model.

## Experience

### UC Berkeley Extension

*Teacher Assistant - April 2020 - Current Employer*

- Proactively mentor and track student progression; provide technical assistance and layman explanations of key concepts used in [full-stack data engineering](#), [analytics](#), and [visualizations](#) in [Python](#), [SQL](#), and [JavaScript](#)

### Capital Insurance Group

*Data Analyst - September 2019 - December 2019*

- Developed a Data visualization dashboard in [PowerBI](#) to track [KPI's](#) related to call center performance. Included metrics such as issue tracking, average handle time, and key issue influencer to improve response time in the call center. Developed an [ETL pipeline](#) linked between [PowerBI](#) and [Jira](#) to extract data for visualization.

### California State University Monterey Bay

*Teacher assistant - August 2019 - December 2019*

- Proactively mentored students in advanced [machine learning](#) and [neural network](#) concepts. Provided technical assistance on key concepts used in [machine learning](#), [statistics](#), [data engineering](#), and [data visualization](#).

### Community Bridges

*Data Analyst - February 2019 - May 2019*

- Developed a report to highlight funding, demographic, and services rendered for Community Bridges. Provided the means to obtain more government grant's to supplement revenue to increase services rendered. Developed an [ETL pipeline](#) to ingest data from a [data lake](#) for analysis. Provided plots developed in [matplotlib](#) and [seaborn](#) in a [Jupyter Notebook](#) for detailed analysis.