

OWEN CLINTON

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EDUCATION

University of California San Diego

September 2016 - June 2020

B.S. in Physics with Specialization in Computational Physics
Minor in Computer Science

RELEVANT COURSEWORK

Computer Science
Physics

Data Science, Deep Learning, and Machine Learning
Computational Physics and Modelling, Statistics, and Differential Equations

EXPERIENCE

ITS Residential Networking Student Technician, UCSD

February 2017 - December 2018

- Provide first tier technical support for faculty, students, staff, and affiliates
- In person computer software and hardware repair
- Investigate emergency network outages and provide emergency support
- Review and update internal documentation

ITS Residential Networking Student Lead, UCSD

December 2018 - June 2020

- Review applications and conduct interviews with prospective student employees
- Update training modules and train new staff
- Assist with design and distribution of various media materials
- Conduct educational presentations about DMCA for users blocked on our network

PROJECTS

Supervised Trading on Key Sentiment

Project to learn Node.js, d3.js, and MongoDB by gathering, cleaning, labelling, and visualizing data pulled from Reddit. Pulled a training set of 10000 comments and a larger set of 2.4 million comments from last year using Reddit's API. Cleaned the data and applied NER using nltk, regex, and Pandas. To label the training dataset I built a simple Node.js app on top of my MongoDB server and assigned a sentiment label to each comment. Trained a flairNLP classifier with the training dataset and applied it to the larger dataset. Built a visualization website using d3, Bootstrap, html, and CSS.

LA City Crime Statistics Visualization and Analysis

Class project utilizing a jupyter notebook to answer a question relating to data science. Explored the relation between streetlights and crime using publicly available data from LA City. Imported and cleaned the data using Pandas and GeoPandas. Visualized the data on maps of the region using Folium and Altair. Performed a linear regression analysis on controlled data using Scipy.

SKILLS

Programming
General

Python, C++, C, Javascript, Java, Matlab, and Mathematica
Windows, MacOS, Linux, and Customer Service