Loc Vu

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EDUCATION

University of California, San Diego

B.S. Computer Science

• Relevant Courses:

Data Science in Practice Systems Programming Object-Oriented Design Software Tools Theory of Computation Advance Data Structures

PROJECTS

Patent Scraper

July 2019 – September 2019

Expected June 2022

Cumulative GPA: 3.84

Python, IPython, Google Drive API, PatentView API

- Utilized **PatentView API** to scrape information from **USPTO Database** and generate a corresponding CSV file, uploaded to cloud using **Google Drive API**
- **Automated** the processes of collecting and generating a patent landscape to increase search efficiency and eliminate the need for manual searches

Robocall Analysis

September 2019 – December 2019

Python, IPython, FCC API

- Analyzed **1.6 million FCC Unwanted Call** complaints from 2014-2019 to explore possible trends through generating visualization using **matplotlib** and evaluating **linear regression** R-squared values
- Concluded no distinguishable trends in robocall activities expect increased quantity in more populated areas

GreenPoint Rated November 2019 – Present

Node.js, React-Native, JSX

- Developing a mobile for **Build It Green** to track the carbon emissions of a given household and incentivize homeowners to pursue greener alternatives
- Utilizing Node.js and React Native for cross-platform compatibles

YouTube Trends Predictor

January 2019 – Present

Python, Youtube API, scikit-learn

- Analyzing the impact of viewer-count, likes/dislike ratio, and title sentiment in predicting YouTube trending video
- Utilizing Naïve Bayes for NLP to develop a classification model that predicts a video's genre based on title

RESEARCH EXPERIENCE

Hyperdimensional Computing onto Embedded Systems

October 2019 – Present

Advisor: Tajana Rosing, UCSD

- Researching the applications of **hyperdimensional computing** as a data independent alternative to traditional neural networks-based **reinforcement learning**
- Developing a semi-autonomous microbot capable to following a line to test the effectiveness of reinforcement learning model

WORK EXPERIENCE

Patent Research Assistant Intern

May 2019 – September 2019

Company: TuSimple, Inc.

- Researched **over 1000** existing patents related to autonomous vehicles using **Google Patent** and **USPTO Database** in order to categorize the technical focus of competitors
- Established and **maintained a database** of related competitor patents to effectively characterize the current landscape of a specific **patent technical area**

SKILLS

Programming & Languages:

Python, SQL, JSX, Java, C/C++

Frameworks & Libraries:

MS Excel, pandas, matplotlib, scikit-learn, Google API Unix/Linux, Git, Continuous Integration, Agile/scrum

Tools & Methodologies:

Windows, Linux

Extracurriculars: Project Lead @ DS3: Data Science Society

Project Lead @ DS3: Data Science Society, Software Developer @ Triton Software Engineering