Loc Vu

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Education

University of California, San Diego ***Expected June 2022***
B.S. Computer Science ***Cumulative GPA: 3.84***

- Relevant Courses:

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

Experiences

Software Developer | *Triton Software Engineering* *November 2019 – Present*
Project: GreenPoint Rated

- 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

Lead Undergraduate Researcher | *UCSD Early Research Program* *October 2019 – Present*
Project: Self-learning Machine with Hyperdimensional Reinforcement Learning

- 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

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

Projects

Robocall Analysis | Python *Fall 2019*

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

Patent Scraper | Python *Summer 2019*
https://github.com/loc-vu /patent-scraper

- 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

Auto Emailer | Python *Summer 2019*
https://github.com/loc-vu/auto-emailer

- Created an automatic email reminder using Python to distributes information such as billing due date and event notification
- Eliminated the need to manually remind roommates of important due dates and drastically decreased number of late payments

Skills

- ***Languages:*** Java, Python, C/C++
- ***Tools:*** Unix Command-Line, Vim, Git, React Native, Node.js
- ***OS:*** Windows, Linux