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:

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

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

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

PROJECTS

Patent Scraper *July 2019 – September 2019*
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, expo, 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

SKILLS

Programming & Languages: *Python, SQL, JSX, Java*
Frameworks & Libraries: *pandas, matplotlib, SMTP, Google API*
Tools & Methodologies: *Unix/Linux, Git, Continuous Integration, Agile/scrum*
OS: *Windows, Linux*
Extracurriculars: ***Project Lead*** *@ DS3: Data Science Society,* ***Software Developer*** *@ Triton Software Engineering*