**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