**Loc Vu**

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**Education**

**University of California, San Diego  *Expected June 2022***

*B.S. Computer Science* ***Cumulative GPA: 3.82***

* Relevant Courses:

Data Structures Systems Programming Object-Oriented Design

Software Tools Discrete Mathematics Mathematics for Algorithms and Systems

**Work Experiences**

**Undergraduate Researcher |** *UCSD Early Research Program* *October 2019 – Present*

*Project: Self-learning Machine with Hyperdimensional Reinforcement Learning*

* Working to develop a system for self-learning inspired by aspects of human memory, perception, and cognition
* Analyzing and resolving issues related to self-learning systems and autonomous sensing through initial development of an automated microbot

**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**

**Patent Scraper | Python** *Summer 2019*

[https://github.com/loc-vu /patent-scraper](https://github.com/loc-vu%20/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
* Implemented an additional feature for generating a corresponding Windows Batch file to schedule when the program will automatically trigger

**Crypto Watch | Python** *Fall 2018*

https://github.com/loc-vu/crypto-scraping

* Constructed a Python web-scraper program to retrieve information about current price, daily percent change, and ranking of the top 100 cryptocurrencies using the CoinMarketCap API
* Utilized SMTP server library to generate and sent an email of the information from user requested cryptocurrency search rather than output to standard out

**Skills**

* ***Languages:*** Java, Python, C/C++, ARM Assembly
* ***Tools:*** Unix Command-Line, Vim, Git, Jupyter Notebook, USPTO Database, Google Drive API
* ***OS:*** Windows, Linux

**Awards and Honors**

**APIASF Scholar** *August 2018*

* Scholarship awarded to Asian Americans with low socioeconomic status and shows an emphasis on community service and leadership

**Provost’s Honors, Warren College Honor Society** *June 2019*

* Honor and Honor society awarded to undergrad who achieves a cumulative GPA of 3.7 or above