

# Loc Vu

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## Education

### University of California, San Diego

B.S. Computer Science

*Expected June 2022*

*Cumulative GPA: 3.82*

- Relevant Courses:

Data Structures  
Software Tools

Systems Programming  
Discrete Mathematics

Object-Oriented Design  
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>

- 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