

Loc Vu

lpvu@ucsd.edu | <https://github.com/loc-vu> | <https://www.linkedin.com/in/loc-vu> | (619) 873-5773

Education

University of California, San Diego

B.S. Computer Science

Expected June 2022

Cumulative GPA: 3.84

- Relevant Courses:

Advance Data Structures
Software Tools

Systems Programming
Theory of Computation

Object-Oriented Design
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

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