**Loc Vu**

[**lpvu@ucsd.edu**](mailto:lpvu@ucsd.edu)[**github.com/loc-vu**](https://github.com/loc-vu)[**linkedin.com/in/loc-vu**](https://www.linkedin.com/in/loc-vu) **(619) 873-5773**

**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

**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**

**Application of 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**](https://github.com/loc-vu/patent-scraper)*July 2019*

[*Python,*](https://github.com/loc-vu%20/patent-scraper) *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

[**Auto Emailer**](https://github.com/loc-vu/auto-emailer)*August 2019*

*Python, IPython, SMTP, Google Drive API*

* 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

**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, Java, C/C++*

***Frameworks & Libraries:*** *Agile, React, SMTP, Google API*

***Tools & Methodologies:*** *Unix/Linux, Git, Continuous Integration, Agile/scrum*

***OS:*** *Windows, Linux*

***Extracurriculars:*** *Software Developer @ Triton Software Engineering, Project Lead @ DS3 Data Science Society*