Vanessa **Lin**

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Education

University of California, Berkeley — *Berkeley, CA*

B.A. Computer Science, B.A. Applied Math ‖ Cumulative GPA: 3.71/4.00 ‖ UPE: CS Honors Society, EECS Honors Program — *August 2017 - May 2021*

- Completed Coursework: Data Structures, Machine Structures, Algorithms, Operating Systems, Database Systems, Discrete Mathematics and Probability, Artificial Intelligence, Entrepreneurship, Multivariable Calculus, Linear Algebra
- In-progress Coursework*: Machine Learning, Abstract Algebra

Experience

Google — *Mountain View, CA*

Software Engineering Intern — *May 2020 - August 2020*

- PGP Search Ads team

RISELab: Real-time Intelligent Secure Explainable — *Berkeley, CA*

Undergraduate Researcher | Electrical Engineering and Computer Science Dept — *February 2018 - Present*

- ***Recurrent Neural Networks*** | August 2019 - Present
- Exploring stability using linear algebra techniques and recurrent neural networks with postdoctoral fellow, N. Benjamin Erichson and Professor Michael Mahoney
- ***E-mission*** | February 2018 - August 2019
- Designed and implemented a study that promotes sustainable transportation habits around the campus and the city and looks at normative behavioral pattern using the E-mission platform under Professor David Culler, Professor Randy Katz, and K.Shankari, PhD candidate
- Recruited a dataset of approximately 15 people to participate in the study as a pilot

Google — *Cambridge, MA*

Engineering Practicum Intern — *May 2019 - August 2019*

- Developed a hotel cancellation feature in which 1M+ users will be able to use for Book on Google, which is a platform that facilitates hotel booking on Google without breaking the search flow
- Facilitated the process of hotel cancellation for users by constructing a server to manage the transfer of information between a user's cancellation request to cancelling the actual booking through partner APIs, using Java and Google Web Server
- Designed and implemented the frontend of hotel cancellation using Javascript and Soy templates

Sandia National Laboratories — *Livermore, CA*

Software Developer Intern — *June 2018 - January 2019*

- ***Capabilities Development Framework*** (a Web GIS App):
- Added capabilities to the app for the Department of Homeland Security, using OpenLayers, GeoServer, PostgreSQL, JavaScript, and PHP
- Developed a Python script that generated HTML forms from GIFT (General Import Format Template) formatted files
- ***Project on Nuclear Gaming***:
- Developed an interactive data collection web application for the game SIGNAL (https://pong.berkeley.edu/e-game/) for proctors to input data collected from board game rounds and facilitate analysis of nuclear deterrence and conflict escalation

Projects

Gitlet

Private Repository — *December 2017*

- Built a mini version of Git, the version control system, through Java and implemented commands, such as add, commit, merge, and etc.
- Able to add and remove files and save those files as blobs in the Gitlet-initialized repository

OmniTraffic

github.com/sarahisyoung/Omni-Traffic — *November 2018*

- Collaborated in a team of 4 students for CalHacks 5.0
- Used OmniSci's Cloud Analytics to find times of frequent traffic in various public transportation routes, with Uber Movement Data
- Visualizes data analytics using the WebGl-powered framework, deck.gl

Skills and Qualifications

Languages/Technologies

Python, Java, SQL, JavaScript, HTML, PHP, Git, Unity, Android Studio, OpenLayers