# Victoria Lim

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## EDUCATION

**B.S Math**                                                    University Park,PA | Aug2018 - April 2021
Penn State University

## WORK EXPERIENCE

**ACCENTURE** | Artificial Intelligence analyst              Philadelphia,PA | May 2020 – Aug 2020

- Led a team of 3 to design and implement statistical models in **SciKit Learn** to analyze the impact of COVID on telework and public transportation for the city of Philadelphia
- Devised efficient algorithms in **Python** to pre-process and collect millions of rows of data stored in **Postgres**.
- Built a **React** dashboard to display statistical information to stakeholders.

**NITTANY AI ALLIANCE** | SWE Intern                         State College,PA | Oct 2019 - Dec 2020

- Developed a transcript processing **Machine Learning** model for Penn State admissions using **spaCy,OpenCV**. Decreased application times by **50%**.
- Deployed and trained machine learning models for Image Recognition and segmentation on **AWS**
- Designed and built **Continuous Integration and Delivery** pipelines with **Jenkins** and **AWS**

**PORTCAST** | Software Engineering Intern                   Singapore | April 2018 – Sept 2018

- Improved shipping loads prediction models for major shipping carriers by over **20%**, using **Python** and **Gaussian Processes**, saving major shipping companies over **$1 Million** in costs.
- Built custom scrapers using **Python**, with custom logging for errors, which wrote to a **Postgres** database.
- Implemented Continuous Integration and Delivery for machine learning models with **Jenkins** and **AWS EC2**
- Optimized **Flask** and **SQL** queries, decreasing loading time for clients by 30 %.

**PENN STATE UNIVERSITY** | Undergraduate Researcher        State College, PA | Aug 2018 - Aug 2019

- Read and implemented algorithms from research papers such as Weighted Matrix Factorization in **Python**.
- Prototyped machine learning models and worked with **High Performance Computing Clusters** to train them.
- Developed web applications to interact with machine learning models by building **RESTful APIs** using **Django**

## PROJECTS AND ACTIVITIES

**COMPETITIVE PROGRAMMING DIRECTOR @ ACM** ⬈
As the Competitive Programming director for the ACM chapter at PSU, I taught data structures and algorithms to CS students to prepare them for interviews. Additionally, I taught the ICPC team new algorithms and data structures, and participated in regional **ICPC** competitions.

**NITTANY DATA LABS** ⬈                          Python,Artificial Intelligence,SciKit Learn, Keras
As director of training, I was responsible for teaching over 100+ freshman and sophomores about data science. I designed Jupyter notebooks and gave presentations for important data science topics such as data preprocessing, as well as algorithms such as random forests, neural networks.

**UNUSUAL OPTION SCANNER** ⬈                     Nodejs, Javascript, React, Mongodb. RESTful API
An Option screener that runs during market hours, processing thousands of options a day. By analyzing different statistics, the program detects unusual options and displays them on a dashboard. Consists of an automated scraper written in **Javascript**, which writes to a **Noqsl/MongoDB** database, a **Nodejs** RESTful API, and a **React** frontend.

## SKILLS

**Languages:** Javascript, Python,C++,SQL
**Web Development:** React, JavaScript, Nodejs, HTML/CSS, Django,Flask
**Machine Learning:** Keras, SciKit Learn, Pandas
**Technology:** Git, AWS, Docker, MongoDB, Postgres, Unix/Linux