Victoria Lim

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EDUCATION

B.S Math | GPA-3.7 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