Andy Lee

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EDUCATION

New York University, *Tandon School of Engineering.* Expected Graduation: May 2025

- Major: B.S. Computer Science
- Minors: Math, Cybersecurity
- *Relevant Courses:* Data Structure and Algorithms, Data Analysis, Object Oriented Programing, Design and Analysis of Algorithms, Computer Architecture, Computer Networking

EXPERIENCE

HAQathon, *Researcher* September 2023 – September 2023

- Applied quantum computing algorithms towards achieving UN Sustainable Development Goals (First place team).

CodePath iOS Development, *iOS Developer* February 2023 – May 2023

- Developed 5+ iOS apps by implementing Cocoa Touch UI framework, MapKit, PhotosPicker, Auto Layout, and other contemporary technologies
- Built Instagram, BeReal and twitter clones frontend utilizing Swift, APIs, and serverless backend with Parse
- Utilized cloud-based backend service, Back4App, in conjunction with Parse Swift to store user logins and data, persist login sessions, and query for specific information
- Collaborated with a team to complete a demo iOS app asynchronously using GitHub version control

NYU Augmented Library, *Backend Developer* September 2022 – December 2022

- Developed monolithic iOS/Android application as a "central hub" for 50,000+ Dibner Library users to access e-textbooks, reserve study rooms, and many other resources.
- Devised and implemented data access layer and controller with Django framework following the MVC architecture.
- Set up OAuth authentication for users with NYU's external server.

PROJECTS

Mock Airline Website

- Applied HTML and CSS to create a 10+ page website complete with a SQL database

Graphics Card Bot

- Utilizes Python's selenium library to help users avoid resale prices marked up 20% or more on GPUs

Credit Risk Machine Learning

- Created machine learning models to identify high- and low-risk bank customers using logistic regression, SVMs, and neural networks with scikit-learn, NumPy, pandas, seaborn, and other Python libraries
- Trained models on a merged dataset of 23 features that included each bank customers' financial and demographic information
- Achieved 85.7%, 89.3%, and 89% validation accuracies with RBF-Kernel SVMs, 2-Layer Neural Network, and logistic regression, respectively

SKILLS

Python/C/C++/MySQL/SQL/MongoDB/Go/Golang/HTML/CSS/Database/Docker

Extracurriculars

OSIRIS Lab 2023 - Present

- Weekly CTF challenges, discussions on cybersecurity developments