

# Robert Melikyan

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## Education

**NYU Shanghai**, Shanghai, PRC

Double Major

- B.S. in Data Science with concentration in AI
- B.S. in Business and Finance with Marketing

**Relevant Coursework:** Data Structures, Linear Algebra, Databases, Business Analytics  
Optimization and Mathematical Programming, Machine Learning

*Class of  
2022*

## Technical Skills

Proficient Languages: **Mainly Python, Unix, C, SQL, JS, HTML/CSS**, some C++

Libraries/Packages: **Django/Flask, D3JS, SciKit, Tensorflow, Pandas, Selenium**

Competitions: **American Math Competition** (2015~1st, 2016~3rd)

## Relevant Work

**New York University - AI and Quantitative Researcher**

- Currently working on a combined **Machine Learning-Deep Learning** oriented research project related to the aviation industry
- Collaborating with ISTAT and industry professionals to devise a **predictive model** to evaluate aircraft value regardless of current economic conditions

*June 2020 -  
Present*

**Nornickel - Software Engineer and Machine Learning Intern**

- Worked for one of the world's largest mining companies, guided by one of their heads of IT.
- Focus was on utilizing **Git Control and Python** for data analysis and operation analysis. Used Unix to help streamline tasks. Was also provided further training in **C and C++** to gain insights on their metal-backed blockchain.

*March  
2020 -  
May 2020*

**Vitalink - Software Engineer and Machine Learning Intern**

- Worked personally with the CEO to automate accounting and administrative processes, mostly through Python and VBA. Reduced required man-hours by 30% by creating Selenium/API scripts. I was asked to return for Winter 2020 to merge their separate systems into one database/webapp using the **Django Stack**.
- Worked to optimize dispatching and routing for their drivers using Python and JS
- My **Accounting Base is available on my Github** ([github.com/robml](https://github.com/robml))

*May 2019 -  
Feb 2020*

## Recent Projects

**FlyQuik - Flight Reservation System** ([repl.it/@robml/flyquik](https://repl.it/@robml/flyquik))

- Designed and Implemented an E-R database for class, originally using MariaDB along with Python-Flask for back-end, HTML/CSS and Javascript for Front End
- After computer crashed and 72 hour non-stop re-coding, made the code more reusable, swapped to SQLite3 due to no Admin privileges on school computers

*Nov -  
Dec 2019*

**Kaggle - House Pricing Competition and ResNet Image Classifier**

- Joined my experience from my AI classes (e.g. Business Analytics, Optimization and Math Programming) with self-study in TensorFlow, SciKit-learn, Pandas, etc.
- Developed **regression prediction model** for **real estate prices** in Ames, Indiana for Kaggle's House Price Prediction Competition AND used in my **Vitalink internship**
- Worked with the **ResNet image classification** dataset and experimented with **Neural Network models** to construct image classifiers focused on **animal and human faces**

*Sept - Dec  
2019*

*Fun facts: I take part in Piano (ABRSM-Level 7), MMA (4th internationally), MUN, and Consulting  
Spoken Languages: **Armenian-Native Fluency; English-Fluent; French-Advanced; Spanish-Advanced;  
Chinese-Intermediate; Russian-Intermediate; Arabic-Basic***

