

# Qingyu(Adina) Zhu

Mountain View, CA ♦ [adinazqy@gmail.com](mailto:adinazqy@gmail.com) ♦ 412-209-9517 ♦ [adinazhu.com](http://adinazhu.com) ♦ <https://www.linkedin.com/in/qingyuz/>

## EDUCATION

**Carnegie Mellon University Silicon Valley** Mountain View, CA  
Master of Science in Electrical and Computer Engineering 12/2020

*Selected Coursework: Foundations of Computer Systems, Engineering Safe Software Systems, Foundations of Privacy*

**The University of Hong Kong** Hong Kong, China  
Master of Science in Computer Science 05/2019

*Selected Coursework: Data Mining, Smart Phone Apps Development, Software Development for Quantitative Finance*

**Nankai University** Tianjin, China  
Bachelor of Engineering in Software Engineering 06/2016

*Selected Coursework: Data Structure and Algorithm Design, Object-oriented Software Methodology, Operating System*

## ACADEMIC PROJECTS

**Analysis for Deep Neural Networks** Mountain View, CA  
*Carnegie Mellon University Silicon Valley* 09/2019 - Present

- Utilized 60,000 examples from MNIST image dataset to train a Convolutional Neural Networks(CNN) with PyTorch in Python.
- Explored a data-driven approach to assess the robustness of the neural network against hacking attacks.
- Worked in a team of 3 to deliver a demonstration using Google colab, presented summary in class and submitted a report.

**Investment Recommendation System** Hong Kong, China  
*Graduate Dissertation, The University of Hong Kong* 09/2018 - 05/2019

- Implemented an automated futures investment recommendation system with Scikit-Learn library and SVM algorithm in Python.
- Extracted Twitter keywords of targeted futures with TF-IDF algorithm, established Twitter sentiment analysis model using NLTK.
- Increased 36% of system's profitability based on 10-year daily price data and 56,000 tweets.

**Math Quiz Android Application** Hong Kong, China  
*The University of Hong Kong* 11/2017 - 12/2017

- Developed an Android application practicing students' ability in solving algebraic equations in Java and Android Studio.
- Completed 300+ lines of Java codes to perform 8 functions including random question generator, timer, error messages.
- Employed 4 Android layouts to display 3 main pages including homepage, quiz page and score summary page.

**Business Intelligence System** Tianjin, China  
*Undergraduate Dissertation, Nankai University* 12/2015 - 05/2016

- Constructed a multidimensional data visualization system to explore association rules from 24MB FoodMart dataset.
- Accomplished visual analytics functions including heatmap, interactive histogram and geographic map with D3.js and JSON.
- Implemented front-end with HTML5 & JSP and back-end with MySQL database and server using Spring MVC framework.

## PROFESSIONAL EXPERIENCE

**Home Credit Consumer Finance China** Tianjin, China  
*Online UW Tester* 11/2016 - 06/2017

- Collaborated with IT development team to test and deploy 10+ auto-evaluation modules for online loan applying systems.
- Monitored daily loan default rate based on personal data and credit records extracted from Oracle(SQL) databases.
- Upgraded risk prediction model by introducing 3 new factors, achieved 10% accuracy improvement with Python.

**ChinaSoft International Ltd** Tianjin, China  
*Java Software Engineer Intern* 06/2014 - 08/2014

- Led a team of 4 to build a social networking website & Android app helping to find sport partners and customize exercise plans.
- Implemented 5 modules supporting recommending, adding or deleting friends, publishing weblogs and chatting online.

## SKILLS

**Frameworks & Tools:** Docker, Linux, Git; Scikit-Learn, PyTorch; Spring MVC, MySQL, Android Studio; Tableau and D3.js

**Programming Language:** (Proficient) Python, Java; (Familiar) C++, C, JavaScript, HTML/CSS

## HONORS & AWARDS

**Merit Student (15%),** Nankai University, China 06/2016

**Meritorious Winner (9%),** Mathematical Contest in Modeling, USA 04/2015