

# Qingyu(Adina) Zhu

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## EDUCATION

<b>Carnegie Mellon University Silicon Valley</b>	<i>Mountain View, CA</i>
Master of Science in Electrical and Computer Engineering	<i>12/2020</i>
<i>Selected Coursework: Foundations of Computer Systems, Engineering Safe Software Systems, Foundations of Privacy</i>	
<b>The University of Hong Kong</b>	<i>Hong Kong, China</i>
Master of Science in Computer Science	<i>05/2019</i>
<i>Selected Coursework: Data Mining, Smart Phone Apps Development, Software Development for Quantitative Finance</i>	
<b>Nankai University</b>	<i>Tianjin, China</i>
Bachelor of Engineering in Software Engineering	<i>06/2016</i>
<i>Selected Coursework: Data Structure and Algorithm Design, Object-oriented Software Methodology, Operating System</i>	

## ACADEMIC PROJECTS

<b>Analysis for Deep Neural Networks</b>	<i>Mountain View, CA</i>
<i>Carnegie Mellon University Silicon Valley</i>	<i>09/2019 - Present</i>
<ul style="list-style-type: none"><li>Utilized 60,000 examples from MNIST image dataset to train a Convolutional Neural Networks(CNN) with PyTorch in Python.</li><li>Explored a data-driven approach to assess the robustness of the neural network against hacking attacks.</li><li>Worked in a team of 3 to deliver a demonstration using Google colab, presented summary in class and submitted a report.</li></ul>	
<b>Investment Recommendation System</b>	<i>Hong Kong, China</i>
<i>Graduate Dissertation, The University of Hong Kong</i>	<i>09/2018 - 05/2019</i>
<ul style="list-style-type: none"><li>Implemented an automated futures investment recommendation system with Scikit-Learn library and SVM algorithm in Python.</li><li>Extracted Twitter keywords of targeted futures with TF-IDF algorithm, established Twitter sentiment analysis model using NLTK.</li><li>Increased 36% of system's profitability based on 10-year daily price data and 56,000 tweets.</li></ul>	
<b>Math Quiz Android Application</b>	<i>Hong Kong, China</i>
<i>The University of Hong Kong</i>	<i>11/2017 - 12/2017</i>
<ul style="list-style-type: none"><li>Developed an Android application practicing students' ability in solving algebraic equations in Java and Android Studio.</li><li>Completed 300+ lines of Java codes to perform 8 functions including random question generator, timer, error messages.</li><li>Employed 4 Android layouts to display 3 main pages including homepage, quiz page and score summary page.</li></ul>	
<b>Business Intelligence System</b>	<i>Tianjin, China</i>
<i>Undergraduate Dissertation, Nankai University</i>	<i>12/2015 - 05/2016</i>
<ul style="list-style-type: none"><li>Constructed a multidimensional data visualization system exploring USA food culture based on Yelp dataset.</li><li>Accomplished visual analytics functions including heatmap, interactive histogram and geographic map with Tableau and D3.js.</li><li>Implemented front-end with HTML5 &amp; JSP and back-end with MySQL database and server using Spring MVC framework.</li></ul>	

## PROFESSIONAL EXPERIENCE

<b>Home Credit Consumer Finance China</b>	<i>Tianjin, China</i>
<i>Online UW Tester</i>	<i>11/2016 - 06/2017</i>
<ul style="list-style-type: none"><li>Collaborated with IT development team to deployed and tested 10+ auto-evaluation modules for online loan applying systems.</li><li>Monitored daily loan default rate based on personal data and credit record extracted from Oracle(SQL) databases.</li><li>Upgraded risk prediction model by introducing 3 new factors, achieved 10% accuracy improvement with python.</li></ul>	
<b>ChinaSoft International Ltd</b>	<i>Tianjin, China</i>
<i>Java Software Engineer Intern</i>	<i>06/2014 - 08/2014</i>
<ul style="list-style-type: none"><li>Led a team of 4 to build a social networking website &amp; Android app helping to find sport partners and customize exercise plans.</li><li>Implemented 5 modules supporting recommending, adding or deleting friends, publishing weblogs and chatting online.</li></ul>	

## 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

<b>Merit Student (15%),</b> Nankai University, China	<i>06/2016</i>
<b>Meritorious Winner (9%),</b> Mathematical Contest in Modeling, USA	<i>04/2015</i>