

# 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>
<b>The University of Hong Kong</b>	<i>Hong Kong, China</i>
Master of Science in Computer Science	<i>05/2019</i>
<b>Nankai University</b>	<i>Tianjin, China</i>
Bachelor of Engineering in Software Engineering	<i>06/2016</i>

## SKILLS

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

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

## REASERCH EXPERIENCE

<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>

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

<b>Analysis for Deep Neural Networks</b>	<i>Mountain View, CA</i>
<i>Carnegie Mellon University Silicon Valley</i>	<i>09/2019 - Present</i>

- Utilized **60,000** examples from MNIST image dataset to train **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 **4** to deliver a demonstration using Google Colab and conduct a report.

<b>Data Visualizations for Food Culture</b>	<i>Hong Kong, China</i>
<i>The University of Hong Kong</i>	<i>11/2017 - 12/2017</i>

- Led a team of **3** to develop a data visualization web exploring U.S. food culture based on Yelp and USDA datasets.
- Applied **Tableau** and **D3.js** to interpret textual, temporal, geospatial, multivariate and hierarchical data.
- Got **A+ (Top 2%)** in course. Web link: <http://adinazhu.com/websites/Food-Culture-Website/index.html>.

<b>Business Intelligence System</b>	<i>Tianjin, China</i>
<i>Undergraduate Dissertation, Nankai University</i>	<i>12/2015 - 05/2016</i>

- Constructed a multidimensional data visualization system to extract association rules from **24MB** FoodMart dataset.
- Designed a database schema, established a database with **MySQL** and used **JDBC** to connect MySQL.
- Implemented front-end in **HTML5**, **CSS**, **JSP**, developed back-end server in **Java** and **Spring MVC** framework.

## WORK EXPERIENCE

<b>Home Credit Consumer Finance China</b>	<i>Tianjin, China</i>
<i>Online UW Tester</i>	<i>11/2016 - 06/2017</i>

- Collaborated with IT 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 record extracted from **Oracle(SQL)** databases.
- Upgraded risk prediction model by introducing **3+** new factors, achieved **10%** accuracy improvement with **Python**.

<b>ChinaSoft International Ltd</b>	<i>Tianjin, China</i>
<i>Java Software Engineer Intern</i>	<i>06/2014 - 08/2014</i>

- Built a social networking website & **Android** app helping to find sport partners and customize exercise plans.
- Implemented **5** function modules to recommend, add or delete friends, publish weblogs and chat online.