

Qingyu(Adina) Zhu

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EDUCATION

Carnegie Mellon University Silicon Valley	<i>Mountain View, CA</i>
Master of Science in Electrical and Computer Engineering	<i>08/2019 - 12/2020</i>
The University of Hong Kong (Overall GPA: 3.6/4.3)	<i>Hong Kong, China</i>
Master of Science in Computer Science	<i>09/2017 - 05/2019</i>
Nankai University (Overall GPA: 3.3/4.0, Junior Year GPA: 3.8/4.0)	<i>Tianjin, China</i>
Bachelor of Engineering in Software Engineering	<i>09/2012 - 06/2016</i>

SELECTED PROJECTS

Model Extraction Attacks Against Machine Learning Models(Ongoing)	<i>Mountain View, CA</i>
<i>Carnegie Mellon University Silicon Valley</i>	<i>09/2019 - Present</i>
<ul style="list-style-type: none">• Worked in a team of 2 to build a simulated Machine-Learning-as-a-Service(MLaaS) using Python.• Used 4 datasets to train SVM-based and Convolutional Neural Network-based classifiers in PyTorch.• Implemented attacks on classifiers by extracting model parameters and hyper-parameters.• Evaluated the attacks based on monetary value, time value, and explored responding countermeasures.	
Investment Recommendation System	<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">• Implemented a futures recommendation system with Scikit-Learn library and SVM algorithm in Python.• Extracted futures Twitter keywords with TF-IDF algorithm, created Twitter sentiment analysis model using NLTK.• Increased system profitability by 36% based on 10-year daily price data and 56,000 tweets.	
Data Visualizations for Food Culture	<i>Hong Kong, China</i>
<i>The University of Hong Kong</i>	<i>02/2018 - 05/2018</i>
<ul style="list-style-type: none">• Led a team of 3 to develop a data visualization web exploring U.S. food culture based on Yelp & USDA datasets.• Applied Tableau and D3.js to interpret textual, temporal, geospatial, multivariate and hierarchical data.• Got A+ (Top 2% of the class). Web link: http://adinazhu.com/websites/Food-Culture-Website/index.html.	
Business Intelligence System	<i>Tianjin, China</i>
<i>Undergraduate Dissertation, Nankai University</i>	<i>12/2015 - 05/2016</i>
<ul style="list-style-type: none">• Created a web-based BI system to extract association rules from FoodMart dataset in Java.• Built a multidimensional data visualization tool using D3.js, JSON, designed a data warehouse supporting OLAP.• Developed front-end in HTML, JSP, and back-end with SQL Server, J2EE, Spring MVC framework.	

WORK EXPERIENCE

Home Credit Consumer Finance China	<i>Tianjin, China</i>
<i>Online UW Tester</i>	<i>11/2016 - 07/2017</i>
<ul style="list-style-type: none">• Collaborated with IT teams 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 adding 3+ new factors, achieved 10% accuracy improvement with Python.	
ChinaSoft International Ltd	<i>Tianjin, China</i>
<i>Java Software Engineer Intern</i>	<i>06/2014 - 09/2014</i>
<ul style="list-style-type: none">• Worked in a team of 4 to build a social networking website & Android app helping people find sports partners.• Completed 12,000 + lines of Java code to perform 40+ functions including add friends, chat online, search info.• Modeled a database schema, established the database using MySQL, used JDBC to connect MySQL.• Implemented front-end in HTML5, CSS, JSP and back-end server using Spring MVC framework in J2EE.	

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