

Qingyu(Adina) Zhu

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EDUCATION

Carnegie Mellon University Silicon Valley Master of Science in Electrical and Computer Engineering <i>Courses: Foundations of Computer Systems, Engineering Safe Software Systems, Foundations of Privacy</i>	<i>Mountain View, CA</i> <i>08/2019 - 12/2020</i>
The University of Hong Kong (Major GPA: 3.6/4.3) Master of Science in Computer Science <i>Courses: Data Mining, Visualization & Visual Analytics, Smart Phone Apps Development</i>	<i>Hong Kong, China</i> <i>09/2017 - 05/2019</i>
Nankai University (Major GPA 3.8/4.0) Bachelor of Engineering in Software Engineering <i>Courses: Data Structure and Algorithm Design, Object-oriented Software Methodology, Operating System</i>	<i>Tianjin, China</i> <i>09/2012 - 06/2016</i>

WORK EXPERIENCE

Home Credit Consumer Finance China <i>Online UW Tester</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 records obtained from Oracle SQL.Upgraded risk prediction model by adding new strategies, achieved 10% accuracy improvement with Python.	<i>Tianjin, China</i> <i>11/2016 - 07/2017</i>
ChinaSoft International Ltd <i>Java Software Engineer Intern</i> <ul style="list-style-type: none">Worked on 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 with MySQL, applied JDBC to connect MySQL.Implemented front-end in HTML5, CSS, JSP and back-end server using Spring MVC framework in J2EE.	<i>Tianjin, China</i> <i>06/2014 - 09/2014</i>

SELECTED PROJECTS

Model Extraction Attacks Against Machine Learning Models <i>Carnegie Mellon Silicon Valley</i> <ul style="list-style-type: none">Worked on a team of 2 to construct a simulated Machine Learning-as-a-Service platform in Python.Utilized 4 datasets to train SVM and Convolutional Neural Network classifiers with PyTorch.Performed attacks on classifiers by extracting model parameters and hyper-parameters.Evaluated the attacks based on monetary value, time value, and explored responding countermeasures.	<i>Mountain View, CA</i> <i>09/2019 - Present</i>
Investment Recommendation System <i>Graduate Dissertation, The University of Hong Kong</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, built a Twitter sentiment analyzer using NLTK.Increased system profitability by 36% based on 10-year daily price data and 56,000 tweets.	<i>Hong Kong, China</i> <i>09/2018 - 05/2019</i>
Data Visualizations for Food Culture <i>The University of Hong Kong</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.	<i>Hong Kong, China</i> <i>02/2018 - 05/2018</i>
Business Intelligence System <i>Undergraduate Dissertation, Nankai University</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.	<i>Tianjin, China</i> <i>12/2015 - 05/2016</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