Qingyu(Adina) Zhu

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EDUCATION

Carnegie Mellon University Silicon Valley	*Mountain View, CA*
Master of Science in Electrical and Computer Engineering	*12/2020*
The University of Hong Kong	*Hong Kong, China*
Master of Science in Computer Science	*05/2019*
Nankai University	*Tianjin, China*
Bachelor of Engineering in Software Engineering	*06/2016*

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

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

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 **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.

Data Visualizations for Food Culture — *Hong Kong, China*
The University of Hong Kong — *02/2018 - 05/2018*
- 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.*

Business Intelligence System — *Tianjin, China*
Undergraduate Dissertation, Nankai University — *12/2015 - 05/2016*
- Constructed a multidimensional data visualization system to extract association rules from **24MB** FoodMart dataset.
- Designed a database schema, established a database with **SQL Server** and used **JDBC** to connect SQL Server.
- Implemented front-end in **HTML5**, **CSS**, **JSP**, developed back-end server in **Java** and **Spring MVC** framework.

WORK EXPERIENCE

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

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