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*
Selected Coursework: Foundations of Computer Systems, Engineering Safe Software Systems, Foundations of Privacy

The University of Hong Kong *Hong Kong, China*
Master of Science in Computer Science *05/2019*
Selected Coursework: Data Mining, Smart Phone Apps Development, Software Development for Quantitative Finance

Nankai University *Tianjin, China*
Bachelor of Engineering in Software Engineering *06/2016*
Selected Coursework: Data Structure and Algorithm Design, Object-oriented Software Methodology, Operating System

ACADEMIC PROJECTS

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 a Convolutional Neural Networks(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 3 to deliver a demonstration using Google colab, presented summary in class and submitted a report.

Investment Recommendation System *Hong Kong, China*
Graduate Dissertation, The University of Hong Kong *09/2018 - 05/2019*
- Implemented an automated futures investment recommendation system with Scikit-Learn library and SVM algorithm in Python.
- Extracted Twitter keywords of targeted futures with TF-IDF algorithm, established Twitter sentiment analysis model using NLTK.
- Increased 36% of system's profitability based on 10-year daily price data and 56,000 tweets.

Math Quiz Android Application *Hong Kong, China*
The University of Hong Kong *11/2017 - 12/2017*
- Developed an Android application practicing students' ability in solving algebraic equations in Java and Android Studio.
- Completed 300+ lines of Java codes to perform 8 functions including random question generator, timer, error messages.
- Employed 4 Android layouts to display 3 main pages including homepage, quiz page and score summary page.

Business Intelligence System *Tianjin, China*
Undergraduate Dissertation, Nankai University *12/2015 - 05/2016*
- Constructed a multidimensional data visualization system to explore association rules from 24MB FoodMart dataset.
- Accomplished visual analytics functions including heatmap, interactive histogram and geographic map with Tableau and D3.js.
- Implemented front-end with HTML5 & JSP and back-end with MySQL database and server using Spring MVC framework.

PROFESSIONAL EXPERIENCE

Home Credit Consumer Finance China *Tianjin, China*
Online UW Tester *11/2016 - 06/2017*
- Collaborated with IT development 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*
- Led a team of 4 to build a social networking website & Android app helping to find sport partners and customize exercise plans.
- Implemented 5 modules supporting recommending, adding or deleting friends, publishing weblogs and chatting online.

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

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