

XIANG SHANG

Tel: (65) 90371449 Email: xiangshang4@gmail.com

Educational Background

09/2014-06/2018 National University of Singapore

Bachelor of Science with Honors (Merit)

Major: **Applied Mathematics**, with specialization in Operation Research & Financial Mathematics

Minor: **Computer Science**, with concentration on Machine Learning

Skills: Python, Java, Web Development (Angular, HTML, Django, Node.js, PHP, SQL), Shell Scripting, MATLAB.

Work Experience

01/2019-Present Analyst, MIZUHO Bank, Singapore

- Innovation Team
 - Developing business process automation by using Python and PHP under HTTP protocol to set up direct connection with server to achieve straight through transaction
 - Led the “Mizuho Dashboard” project: set up Tableau server for the whole bank in order to build interactive dashboards and conducted training for bank staff
 - Proof of concept as a full stack developer: by using Angular as frontend framework, Node.js as backend web server to extract corresponding data from Microsoft SQL server.
- Risk Management Department
 - Researched customer current accounts, financial profiles, and conducted joint analysis using Bloomberg market index
 - Developed supervised machine learning models to explore potential deposit behaviors; providing early warning indicators to reduce interests rate risk
- Corporate Banking Department
 - Developed customer on-boarding platform with Django web framework, and submitted proposals to headquarter on behalf of Singapore branch

05/2017-08/2017 Intern, Operation Department, MIZUHO Bank, Singapore

- Applied RPA on automatic email checking process; developed a database prototype for storing customers' credit information
- Provided Business Continuity Plan
 - Consolidated all the information from the whole back office, including personal information and business function skills
 - Prepared a new database; linked the database to the multiple data sources to achieve automatic data transmission, and used Tableau to visualize and build dashboards
- Attended interviews of Nikkei Asian Review on discussion about Japanese bank's innovative initiative in overseas branches
- Delivered final presentation to management, and won the first prize cheque of 3000 SGD, issued by CEO of SEA region

Academic Activities

04/2020-06/2020 Individual Research, *Natural Language Processing* Advisor: MIT Postdoctoral Researcher Fan Zhang

Project: Telegram Chatbot to check real-time stock price

- Applied Named-Entity recognition and Intention recognition technology to capture information from human chat.
- Deployed the Chatbot on Telegram by Python and extracted real-time stock price by open-source API.

1/2018-05/2018 Team Leader, *Data Mining*

Advisor: A/Prof. Alexandre Hoang, Thierry

Project: Data-mining competition on Kaggle, to predict taxi prices based on trajectories

- Applied regression models and classification models on more than 400,000 records of data with Python.
- Won second place in the competition.

08/2016-12/2016 Team Leader, Coursework of *Database Systems*

Advisor: Prof. Bressan, Stephane

Project: To develop a Stuff Sharing System for a virtual company, an online portal that allows its employees to exchange stuff

- Built the database, devised the schema and whole schedule of the team, including variables, relationship between tables and programming in the server
- Analyzed system functionality and technical specifications, applied Ruby on Rails as the framework

01/2015-05/2015 Individual Project, Coursework of *Programming Methodology*

Advisor: Prof. Leong Wai Kay

- Developed the PC version of popular mobile game “2048” with Python