**XIANG SHANG**

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**Educational Background**

**09/2014-06/2018 National University of Singapore**

Bachelor of Science with Honors (Merit) with **Senior Middle 2 (SM2) Scholarship**, awarded by the Ministry of Education of Singapore to top science students from China

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

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

**Skills:** Python, Java, Angular, HTML, CSS, JavaScript, Typescript, Django, Node.js, PHP, SQL, MATLAB.

**Work Experience**

**01/2019-Present Analyst, MIZUHO Bank, Singapore**

➢ Innovation Team

⚫ Developing business process automation by using Python and PHP to set up direct connection with server to achieve straight through transaction and support Remittance team

⚫ 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, Thiery**

**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