**XIANG SHANG**

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**Educational Background**

**09/2014-06/2018 National University of Singapore GPA: 3.98/5.0**

**Bachelor of Science with Honors (Merit)**

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

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

**Senior Middle 2 (SM2) Scholarship** for five consecutive years, awarded by the Ministry of Education of Singapore to high-achieving science students from China

**Skills:** Python, C, C++, Java, Angular, HTML, CSS, JavaScript, Typescript, Django, SQL, MATLAB.

**Work Experience**

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

➢ Innovation Team

⚫ Leading the “Mizuho Dashboard” project: set up Tableau server for the whole bank in order to build interactive dashboards and conducted training for bank staff.

➢ Risk Management Department

⚫ Researched customer current accounts, financial profiles, and conducted joint analysis using Bloomberg market index

⚫ Tested supervised machine learning models to explore potential deposit behaviors; providing early warning indicators to reduce interests rate risk

➢ Asia Oceania Treasury Department

⚫ Attached with trading desk to get exposures of FX trading, Interests Rate Swap and Money Market

➢ Corporate Banking Department

⚫ Developed customer on-boarding platform with Django web framework, proposed the idea and presented the prototype to headquarters on behalf of Singapore branch

⚫ Prepared credit applications by analyzing customer financial statements; provided industry analysis on real estate, shipbuilding, energy, agribusiness, etc.

➢ Global Transaction Banking Department

⚫ Managed daily transactions and application for letter of credit from customers

⚫ Developed a consolidated database for data entry and retrieval, improved work efficiency and saved manpower in the whole transaction line

**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 post 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 “2048” digital game with matrix and Python

**Community Services & Co-curricular Activities**

**09/2014-Present Key Member,** Publicity Team & Operation Team

Tanjong Pagar CC Youth Executive Committee, Singapore

➢ Publicity Team: organized Tanjong Pagar Youth Club 3 on 3 Basketball Tournament in Sept 2014

➢ Operation Team: organized TPCC basketball team bonding in Feb 2014; organized BBQ activity for SM2 18th batch in Feb 2015

**09/2014-06/2015 Key Member,** Eusoffworks Video Wing, Eusoff Hall, National University of Singapore

➢ Worked as one of the main photographers and video editors for hall events

**09/2014-06/2015 Befriender,** SM2 Scholarship Batch 18th Owners, Singapore

➢ Assisted the befriendees to travel around Singapore and receive medical checks

➢ Took charge of the events for befriendees at Sentosa, Discovery Centre, and Singapore Science Centre

**09/2014-06/2015 Teacher,** Zhonghua Secondary School, Singapore

➢ Taught Chinese Chess, organized and celebrated “Chinese Festival” in school with students, and introduced transnational Chinese Culture