Master AI student with a background in Mathematics and Computer Science.

Highly analytical, self-driven, with solid modelling and programming skills.

Strong interests in Machine Learning, Data Science and Robotics. Willing to learn attitude.

# **Education**

University of Amsterdam Amsterdam, NL

M.S. IN ARTIFICIAL INTELLIGENCE Sept. 2022 - Current

## **University of Washington**

Seattle, US Sept. 2018 - Aug. 2021

B.A. IN MATHEMATICS

- Overall GPA: 3.58/4.00
- Dean's List 2018 2019
- Research Interests: Machine Learning, Data Science, Robotics
- · Selected coursework:
  - CSE 546 Machine Learning
  - CSE 547 Machine Learning for Big Data
  - MATH 514 Networks And Combinatorial Optimization
  - LING 571 Deep Processing Techniques For Natural Language Processing

# **Res**earch Experiences

## Department of CSE, Hong Kong University of Science and Technology

Hong Kong, China

Undergraduate Research Assistant

June 2021 - Sept. 2021

- Advisor: Ke Yi.
- Link: http://www.academic.cetustalk.com.
- Worked on big data computing with Hadoop and Spark. Acquired both the theory and hands-on experience of these big data systems.

#### **HCR Lab, University of Washington**

Seattle, US

Undergraduate Research Assistant

June 2020 - June 2021

- Advisor: Maru Cabrera.
- Group link: https://hcrlab.cs.washington.edu.
- Worked with RoboCup@Home Open Platform League Team.
- · Worked on machine learning tasks to build a robotics system which can autonomously perform a series of tasks in the home environment.

### Personal Robotics Lab, University of Washington

Seattle, US

Undergraduate Research Assistant

June 2020 - Dec. 2020

- Advisor: Rosario Scalise.
- Group link: https://personalrobotics.cs.washington.edu.
- Worked on Multitask Unsupervised Learning Project, using pytorch + the PyRoMID framework to develop a training pipeline for robotics-oriented mulitask unsupervised learning problems.

# **Industry Experiences**

#### **Hundsun Technologies Inc.**

Hangzhou, China

SOFTWARE DEVELOPMENT INTERN

July 2019 - Aug. 2019

- Wrote, tested and deployed financial apps providing services for other firms.
- Built an app used for reporting the stock market trend and predicting the future behaviors.
- · Improved communication and teamwork skills through integrating my work with others using the same programming styles and formats.

## E.T. Logistics Laboratory, Alibaba Group

Hangzhou, China

RESEARCH INTERN

Aug. 2019 - Sept. 2019

- Read related research paper on machine learning algorithms.
- Studied Linux and Robot Operating System(ROS) command line tools.



Programming Languages
Tools and Frameworks

Python, Java, C++, JavaScript, PHP, MATLAB, R, SAS, SQL, LaTeX.

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PyTorch, Git, LXC, VueJS, Flask, Hadoop, Spark, ROS. Object-Oriented Programming, Web Development

**Selected Projects** 

# Identifying Most Frequent Word Pairs with Spark Streaming Techniques

Research Project

WORK DONE AT DEPARTMENT OF CSE @ HKUST

July 2021 - Aug. 2021

- · Printed out the top ten adjective-noun pairs with the largest frequency at the end of each batch using a spark streaming program.
- Predicted that although the number of a specific word pair may not be as large as the number of a specific word, the number of new combinations any two distinct words can make is much greater than the total number of distinct words.

### Lyft Motion Prediction for Autonomous Vehicles (AVs)

Research Project

WORK DONE AT PERSONAL ROBOTICS LAB @ UW

June 2020 - Dec. 2020

• The goal of this project is to build motion prediction models that accurately predict traffic agents' movement around the AV. I utilized the PyRoMID framework to train and test different combination of machine learning models on the given Prediction Dataset. This project is also formulated as a Kaggle competition.

## **Identifying Feeding Strategies with Unsupervised Learning**

Class Project

WORK DONE IN CSE547 MACHINE LEARNING FOR BIG DATA

Mar. 2020 - June 2020

- · Facilitated autonomous robotic feeding.
- Clustered foods into clusters based on sensor data collected from a fork during human feeding trials. Found that the hardness of a food and whether a food is curved are the main factors that determine the feeding strategy used for the foods examined.

### Analysis of criminal situation in Chicago from 2001-2019

Class Project

WORK DONE IN CSE163 INTERMEDIATE DATA PROGRAMMING

Apr. 2019 - June 2019

- Used different kinds of data science libraries to analyze the crime data set in Chicago.
- · Predicted the possibility of the criminal being arrested at a given time of a day and a given criminal type.
- · Found the ranking of safety of different areas of Chicago.
- Found out how the rate of solved case affect the crime rate.
- Found out how the poverty rate, unemployment rate, educational level and age distribution among people affect the crime rate in a particular community area during a specific period of time.

## My Beloved Leader: a game about immigration

Class Project

WORK DONE IN CSE190 GAME DESIGN FOR PROBLEM-SOLVING WITH PYTHON

Aug. 2018 - Sept. 2018

• Built a single player role playing game so that players can have fun playing while learning the rules of immigration at the same time.

# **Extracurricular Activity**

#### **DubsTech, University of Washington**

Seattle, US

CLUB MEMBER

Sept. 2018 - Aug. 2021

- Attended various workshops teaching programming tools and frameworks.
- Attended the Full Stack Web Development Program. Acquired the materials from backend to frontend at a fast pace and deploy a chat app.