4221 9th Ave NE, Seattle, WA, 98105 □ +1(206)295-7185 | wenkaip@uw.edu | 😭 wenkaip.xyz

Education

University of Washington

Seattle, WA

Sept. 2018 - Current

B.S. IN MATHEMATICS

- Overall GPA: 3.54/4.00
- Dean's List 2018 2019
- Research Interests: Machine Learning, Natural Language Processing, Robotics
- Selected coursework:
 - CSE 546 Machine Learning
 - CSE 547 Machine Learning for Big Data

Research Experiences _____

Human-centered Robotics Lab, University of Washington

Seattle, WA

Undergraduate Research Assistant

June 2020 - Current

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

Personal Robotics Lab, University of Washington

Seattle, WA

Undergraduate Research Assistant

June 2020 - Current

- Advisor: Rosario Scalise.
- Group link: https://personalrobotics.cs.washington.edu.
- · Currently working 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.

Skills

Programming Languages Python, Java, JavaScript, PHP, MATLAB, R, SAS, SQL, LaTeX.

Tools and Frameworks PyTorch, Git, LXC, VueJS, Flask, Spark.

Skills Object-Oriented Programming, Web Development

Selected Projects

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, WA

CLUB MEMBER

Sept. 2018 - Current

- 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.