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

Education

University of Washington

B.S. IN MATHEMATICS

Sept. 2018 - Current

Seattle, WA

- 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

June 2020 - Current

Undergraduate Research Assistant

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.

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

Mar. 2020 - June 2020

· Facilitated autonomous robotic feeding.

WORK DONE IN CSE547 MACHINE LEARNING FOR BIG DATA

· 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.