Education

University of California, San Diego

Sep. 2021 - Jun. 2025

B.S. IN COMPUTER SCIENCE | COGNITIVE SCIENCE: MACHINE LEARNING AND NEURAL COMPUTATION

· GPA: 3.89

Work Experience_

Orient Securities Ltd.

Jun. 2023 - Aug. 2023

QUANTITATIVE INVESTMENT INTERN

Shanghai, China

- · Participated in a minute-wise prediction model project for a trading strategy targeted for convertible bound No.123181.
- · Extract possible indicators from datasets, both manually and by Fin-tech tools like Tune-TA and TA-lib.
- Applied models on classic regression models from Scikit-Learn, as well as deep learning models like LightGBM and LSTM.
- · Provided useful pipelines for the team, including preprocessing, feature detection, training, and result analysis.
- Collect, clean, plot, and analyze data using Pandas and NumPy.

University of California, San Diego

Sep. 2022 - Nov. 2022

PROJECT RESEARCH ASSISTANT

CA, United States

- Worked with Prof. Onat Gungor on a hyper-dimensional computing research project.
- Provided debriefs collected from literature review articles in the field, report on a weekly basis.

Hanvon Technology Ltd.

Aug. 2021 - Sep. 2021

Beijing, China

- RESEARCH ASSISTANT INTERN
- Provided Test feedback and report bugs for next-gen facial recognition smart lock.
 Helped algorithm team collect and label over 10K of pedestrian image data for traffic monitoring.
- Gathered and reported over 40 recent papers and news about the latest developments in the field.

Gradient Learning

Jul. 2021 - Sep. 2021

STUDENT ADVISORY COMMITTEE

Remote

- · Tested the alpha version of Gradient Learning, an online AI learning platform for high school students led by Dr. Andrew Ng.
- Worked with a group of students around the world and learned about project management.

Projects_

PawPrints — GitHub / Presentation

Feb. 2023 - Jun. 2023

LEAD BACKEND & BLOCKCHAIN DEVELOPER

- Co-founded and developed A **blockchain-powered** platform for pet medical data tracking and sharing.
- Deployed on Polygon as testing network, Using Web3.js for blockchain interaction, Ran on React.js as frontend, mySQL as database
- Created custom **Solidity** contract and provide cross-verification for pet owners, hospitals, and insurance companies.
- 1st place winning team of the Franklin Templeton 2023 Blockchain Contest, winning \$15,000 prize.

Tortoises vs. Dogs Object Detection Algorithm Based on YOLOv5 — Full Paper

Dec. 2020 - Jul. 2021

INDIVIDUAL RESEARCHER

- Custom dataset obtained by my web crawler. Excluded duplicate pictures and manually labeled the data. 20K images total.
- Compared performance between YOLOv5 and other SOTA algorithms. Concluded that it gave up its accuracy in exchange for speed.
- Recorded the experiment and condensed it into an academic paper "Research of Tortoises vs. Dogs Object Detection Algorithm Based on YOLOV5".

Voice-controlled Photo Album for Elders

Sep. 2019 - Jun. 2021

PERSONAL PROJECT

- Using Baidu's voice recognition and generation **API** and Turing API as a **voice assistant**. Users interact using voice commands.
- Remote Picture sharing, using **OpenCV** to rotate and crop pictures automatically.
- Won the 1st place gold award at the 2019 Youthmaker Technology & Science Fair in Shanghai.

Skills

Programming: Java, Python, C/C++, JavaScript, Solidity, CSS, HTML, Bash, SQL, R

Frameworks: React, YOLO, TensorFlow, OpenCV, Rest API, Node, GitHub, GDB / Valgrind, JUnit

HardWare: Raspberry Pi, Arduino, Robotics control

Languages: English (TOEFL 113), Mandarin