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Education

UNIVERSITY OF SAN FRANCISCO

San Francisco, CA

Masters of Science, Major in Computer Science. GPA: 4.0/4.0

August, 2021 - May, 2023

Recipient of USF MSCS Merit Scholarship.

UNIVERSITY OF NEW SOUTH WALES

Sydney, Australia

Bachelor of Science (Honors), Major in Applied Mathematics

February, 2017 – May, 2021

Recipient of Australian Research Council, Center of Excellence for Climate Extremes Honors Scholarship.

Professional Experience

KALO INC.
Machine Learning Engineer Intern

Sydney, Australia

January 2020 – February 2020

- Created text based supervised machine learning models with *Keras* and *Sci-Kit Learn* to categorize the fashion styles of all clothing items in Kalo's database (over 10,000) with an accuracy of over 60%.
- Abstracted and quantified the qualitative problem of recognizing fashion styles.
- Cleaned and sorted the training data for preprocessing with *Pandas*.

CHINESE ACADEMY OF SCIENCES – INSTITUTE OF AUTOMATION

Beijing, China

Data Scientist Intern

December, 2017 – February, 2018

- Collected major shareholder data of over 5000 public companies through automated scraping of news sites.
- Analyzed and visualized data to find similarities between various investment firms' portfolios.
- Utilized Beautifulsoup and Scrapy for the scraping and Pandas for pre and post processing.

Academic Experience

UNIVERSITY OF NEW SOUTH WALES – CLIMATE CHANGE RESEARCH CENTER

Sydney, Australia May 2020 – August 2021

Research Assistant

- Designed and conducted a year long research project investigating the interaction between moisture and convection.
- Developed process oriented diagnostic tools for data from various global climate models with Numpy and XArray.
- Utilized diagnostic tools to investigate an attractor behavior found in space of moisture-precipitation.

GEORGIA INSTITUTE OF TECHNOLOGY - SCHOOL OF MATHEMATICS

Atlanta, GA

Research Assistant

August 2019 – December 2019

- Adapted a new partial differential equation fitting algorithm IDENT, to be able to work on adaptive grid sizes rather
 than just on uniform grid sizes in *Matlab*.
- Improved the algorithm by an exponential amount given the exponentially greater amount of use cases of all grid sizes.
- Tested for stability, efficiency, and then identified strengths and weaknesses of the algorithm.
- Built with Matlab using numerical mathematical tools including Lasso and high resolution schemes.

Side Projects

Reddit GUI

October 2021 – December 2021

- Developed a new GUI for Reddit.com with a completely new user experience D3 in JavaScript.
- Applied the principles of data visualization to create a new way of browsing.

Event Ticketing Website

November 2021 – December 2021

Created an online ticketing platform for a project at USF using *Java*, *Jetty* and *HTML*.

Skills & Interests

Programming Languages: Python, Java, JavaScript, C, HTML, SQL.

Technologies: Pandas, Numpy, Sci-Kit Learn, Keras, D3, Git, Mac, Linux, Windows.

Languages: English (Native), Mandarin (Native), French (Intermediate).

Interests: Guitar, Martial Arts (Judo, Kickboxing), Traveling/Backpacking (40 countries).