

Ian Wu

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OBJECTIVE

Highly self-motivated and hard-working student at in my final year at Cleveland State University studying computer science. I am passionate and eager to learn more about data science, AI, machine learning, and natural language processing. I am seeking an internship with excellent mentorship opportunities for the summer of 2022 where I will be able to apply these topics to innovative and challenging problems.

I will also be returning to school in fall of 2022 to earn my M.S. in data science or machine learning. Although I don't know what school I will be attending yet, I have already received a few acceptances, so I will be enrolled in a program this fall.

EDUCATION

B.S. in Computer Science, Minor in Mathematics

Expected May 2022

Cleveland State University – GPA: 3.83 / 4.0

- Coursework in Artificial Intelligence, Big Data, Data Structures & Algorithms, Database Concepts, Discrete Mathematics, Deep Learning, Linear Algebra, Internet Programming, and Multivariable Calculus

PROFESSIONAL EXPERIENCE

Software Engineering Intern

June 2021 – August 2021

Tailwind – Oklahoma City, OK

- Researched and implemented machine learning based techniques for image background removal
- Tested multiple ML models using the TensorFlow and PyTorch Python libraries; Selected and implemented the U2-Net Model Architecture
- Created Amazon Web Services Lambda functions in both TypeScript and Python to integrate image background removal into an internal microservice

IT Intern

June 2020 – July 2020

Dominion Energy – Cayce, SC

- Researched and presented on opportunities for Dominion Energy to become involved in electric vehicle charging
- Adapted to abruptly changing responsibilities due to Covid-19

PROJECTS

Senior Capstone Project

August 2021 – Present

- Coordinated and organized group to develop and propose project concept to department faculty; Selected to serve as team leader
- Developing an intelligent system using BERT and other natural language processing methods to identify social media opinion/sentiment on any user-given congressional bill as well as its likelihood of passing in a congressional vote
- Utilizing topic extraction methods to collect relevant data from the Twitter API
- Using SQL to store and retrieve millions of tweets for data exploration and training of sentiment analysis and prediction models

TECHNICAL SKILLS

Programming Languages: C, CSS, HTML, Java, JavaScript/TypeScript, MongoDB, Python, SQL, Swift (exposure)

Libraries and Frameworks: Keras, Node.JS, NumPy, OpenCV, PIL, PyTorch, React, TensorFlow

Other Technologies: AWS Lambda, Jupyter Notebook

INVOLVEMENT

Volunteer Researcher

January 2022 – Present

Cleveland Clinic Lerner Research Institute – Cleveland, OH

- Researching applications of deep learning in musculoskeletal (MSK) medical imaging under Dr. Xiaojuan Li

Society of Asian Scientists and Engineers (SASE): Vice President, Founding Member

January 2021 – Present

Cleveland State University – Cleveland, OH

- Helped to establish a SASE chapter at Cleveland State University
- Organizing meetings and networking opportunities for members with fellow officers and representatives from sponsor company (FirstEnergy)

NCAA Division 1 Fencing Team

August 2018 – Present

Cleveland State University – Cleveland, OH

- Managing a full-time course load while training and competing with the Cleveland State University Fencing Team
- Qualified for NCAA Conference and Regional Championships all years of involvement