Zixuan(Marco) Wang

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EDUCATION

University of Wisconsin-Madison May 2027
GPA: 4.0
Intended Major: Computer Science and Data Science
Relevant Coursework: Programming III, Discrete Mathematics, Linear Algebra, Intro to Big Data Systems, Machine Organization Programming

WORK EXPERIENCE

OPT Machine Vision Technology
Computer Vision Intern
- Applied computer vision model Yolov5 on industrial data for manufacturing automation
- Labeled and trained models specializing in image classification for purposes including manufacturing alignment, quality inspection, defect detection, and parts classification.
- Built translation automation software leveraging the OpenAI API that preserved document formatting across PDFs, PowerPoint, and Word files, while allowing customizable and consistent translations for technical content.

RESEARCH

NLP Action Identification
- Utilized spaCy to extract and categorize recommended actions from ChatGPT responses related to handling abusive partner situations.

PERSONAL PROJECTS

News Article Bias Tracker
- Web application using Python to scrape and analyze news articles for bias and misinformation
- Collects and displays data regarding article polarity, agent framing, and emotionally charged language using spaCy and HuggingFace

Musicalfy
- Web application using Flask to analyze and visualize a user's Spotify trends via the Spotify API.
- Accepted by Spotify for quota extension

Flappy Bird NFT Game
- Flappy bird inspired web application with web3 wallet sign-in functionality and online global leaderboard using React

Emotion Classification
- Used deep learning CNNs to identify and classify facial emotions in pictures with Python using scikit-learn

LEADERSHIP EXPERIENCE

President of Saratoga Cryptocurrency Club Saratoga High School
President
- Founded a club with over 50 members that focused on teaching the basics of cryptocurrencies to my peers.
- Collaborated with other clubs to increase membership and engagement by more than 30%

AP Computer Science Teacher's Assistant Saratoga High School
Teacher's Assistant
- Taught class and developed curriculum during teacher's leave of absence
- Gave 15+ hours of lecture, and 20+ hours of afterschool tutoring
- Aided students with concept comprehension and debugging

SKILLS

Technical Skills: Python, C++, Java, React, SQL, R, C, scikit-learn, pandas, numpy, spaCy, scrapy, HuggingFace, flask
Languages: English(native), Chinese(native)