

Zixuan(Marco) Wang

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EDUCATION

University of Wisconsin-Madison

Expected Graduation: May 2027

GPA: 4.0

Major: Computer Science and Data Science

Relevant Coursework: Data Structures, Computer Systems, Big Data Systems, Linear Algebra, Discrete Mathematics

WORK EXPERIENCE

OPT Machine Vision Technology

Computer Vision Intern, June-August 2025

- Applied YOLOv5 to industrial datasets to automate manufacturing processes.
- Labeled and trained models for image classification tasks including alignment, quality inspection, and defect detection.
- Enhanced defect detection by 12% and decreased inspection time by 15% on a specific product line relative to baseline models.
- Developed translation automation software using the OpenAI API to preserve formatting in PDFs, PowerPoint, and Word documents while enabling customizable, consistent translations for technical content.
- Translation software fully integrated into the company ecosystem, serving as OPT's primary tool for translations in documentation, client meetings, and communications.

RESEARCH

User Awareness and Consent in Gaming Anti-Cheat Systems

Lead Researcher, August 2025-Present

- Leading research project examining user awareness and consent in gaming anti-cheat systems to inform user-centered design and policy.

NLP Action Identification

Creator, April 2025-May 2025

- Leveraged spaCy to extract and categorize recommended actions from LLM responses addressing abusive partner scenarios.
- Designed a system to structure unformatted text into actionable insights for analysis.

PERSONAL PROJECTS

News Article Bias Tracker

Creator, May 2025-June 2025

- Built a Python web application to scrape and analyze news articles for bias and misinformation.
- Implemented sentiment analysis, agent/patient framing detection, and emotional language identification using spaCy and HuggingFace.

Musicalfy

Creator, July 2024-September 2024

- Developed a Flask-based web application to analyze and visualize a user's Spotify trends through the Spotify API.
- Secured a Spotify quota extension approval for expanded usage.

Emotion Classification

Creator, February 2025-March 2025

- Used deep learning CNNs to identify and classify facial emotions in headshots with Python.

ACTIVITIES

Machine Learning Marathon

Member, September 2025-Present

- Collaborating in a five-member team to develop models that predict the functional impact of amino acid substitutions in proteins.

SKILLS

Technical Skills: Python, C/C++, Java, React, SQL, R, scikit-learn, pandas, numpy, spaCy, HuggingFace, Flask, Git, Scrapy