

WYATT MAYOR

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PROFILE STATEMENT

As a dedicated Graduate Student in Computer Science, I bring four years of hands-on experience in machine learning to the table. My academic and project work has been focused on harnessing the power of data and algorithms to solve complex problems, making me an ideal candidate for an internship as a Machine Learning Engineer.

EDUCATION

Master of Computer Science, University of Illinois Urbana-Champaign Expected 2024

Relevant Coursework: Deep Learning for Computer Vision, ML for Compilers and Architectures, Software Engineering I, Data Mining Principles, Mobile Robotics

Bachelor of Arts in Computer Science, Monmouth College 2021 - 2023

Relevant Coursework: Machine Learning, AI, Data Structures, Operating Systems

EXPERIENCE

Undergraduate Machine Learning Researcher June 2022 - Aug 2022

University of Arizona *Tucson, AZ*

- Integrated and tested advanced Deep Neural Networks for shadow detection on road signs, significantly enhancing visibility and reliability for autonomous vehicle systems.
- Innovated a Generative Adversarial Neural Network approach to effectively remove shadows from images, markedly improving classification accuracy for autonomous driving applications.
- Authored a detailed, well-documented research paper, effectively communicating complex machine learning concepts and the project's breakthroughs to a broad audience.

PROJECTS

Oriented Object Detection on Fisheye Security Cameras. Engineered an innovative PyTorch-based object detection system for Fisheye security camera datasets, predicting oriented bounding boxes. This project highlighted my expertise in PyTorch and computer vision. ([Portfolio](#)) ([Repository](#))

The Scot Bot. Developed 'The Scot Bot', which entailed a custom algorithm for data scraping and formatting to generate a QA dataset about college courses. I also integrated a large language model for handling open-domain queries. ([Portfolio](#)) ([Repository](#)) ([Video demonstration](#))

COVID Data Visualization and Cleaning Pioneered a project on cleaning and visualizing COVID-19 data, employing Python, Pandas, and plotly to transform complex datasets into clear, interactive visualizations. Demonstrated my technical skill in data analysis. ([Portfolio](#)) ([Repository](#))

PUBLICATIONS

- Shadows Aren't So Dangerous After All: A Fast and Robust Defense Against Shadow-Based Adversarial Attacks. ([View Paper](#))

ACHIEVEMENTS

- Computer Science Award - Senior Project, Computer Science Award - Introductory Sequence, Dean's List (2019-2024)

SKILLS

Technical Skills Python, Machine Learning Algorithms, Deep Learning Algorithms, NLP, Cloud Computing, Feature Engineering, Graph Neural Networks, Time series analysis, Computer Vision, SQL, Transformers, Collaboration, Version Control, Problem Solving, Predictive Analysis, C, C++

Tools Pytorch, Keras, Tensorflow, NumPy, SciPy, Sci-kit learn, Matplotlib, Seaborn, Gensim