# Wyatt Mayor

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## EDUCATION

***Bachelor of Arts, Computer Science*** ***May 2023***
Monmouth College, Monmouth, IL
(GPA: 3.84/4.00 Scale)

***Associates of Arts*** ***May 2021***
Carl Sandburg College, Galesburg, IL
(GPA: 3.62/4.00 Scale)

## EXPERIENCE

***CAT Vehicle REU, University of Arizona, Tucson, AZ*** ***(June 2022 – August 2022)***

- Worked with state-of-the-art Shadow Detection Deep Neural Networks to detect shadows on road signs
- Developed and implemented a Generative Adversarial Neural Network to remove shadows from images before classification
- Learned how to produce a concise and well-documented research paper to explain what the research entailed

## PUBLICATIONS

- Wang, A., Mayor, W., Smith, R., Nookula, G., & Ditzler, G. (2022). Shadows Aren't So Dangerous After All: A Fast and Robust Defense Against Shadow-Based Adversarial Attacks. *arXiv preprint arXiv:2208.09285*.

## ACADEMIC PROJECT

***Monocipher, Monmouth College, Monmouth, IL***

- Used python to create a command line program that offers encrypting/decrypting, key generation, and letter analysis
- Learned how to handle user inputs and prevent malicious inputs
- Implemented multiple functionalities to the same program preventing confliction

***The Scot Bot (Current Senior Project), Monmouth College, Monmouth, IL***

- Developed a data scrapping/formatting algorithm that creates a text dataset quickly
- Working with machine learning models that can answer open-domain questions about Monmouth college
- Improving my ability to produce visualizations to compare and explain the machine learning models that are used

***Game of Life Website, Monmouth College, Monmouth, IL***

- Experienced web development using HTML, JavaScript, and CSS
- Explored how to dynamically change a website using JavaScript
- Implemented a rule-based system for a dynamic gameboard using JavaScript

## RELEVANT COURSEWORK

***Monmouth College***

- Intro to System Programming –Improved my ability to write and debug c and assembly language.
- Discrete Math – Developed my understanding of how core math functions work and why they work.
- Data Structures and Algorithms – Explored fundamental algorithms that can be implemented among foreign programming languages.
- Computer Applications(Project course) – Developed my ability to work in a software development team and apply foreign programming languages efficiently.
- Machine Learning – Explored the fundamentals of machine learning. Improved my visualizations, data analysis, and model implementation ability.

***Carl Sandburg College***

- Fundamentals of Programming – Learned how to write clean and efficient C++.
- Implement Ms Network Structure – Built, implemented, and managed networks.
- SQL Database Application – Built and managed a database while learning how to write efficient SQL in MySQL interface.

## TECHNICAL SKILLS

***Coding*****:** Python, C, C++, SQL, HTML, CSS, JavaScript, Pytorch, Sklearn, TensorFlow
***Technologies/Environments*****:** Windows, Mac, Linux, MySQL, Command Line (Mac)