

# Mark Stanley

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## EDUCATION

### University of Wisconsin-Madison

Madison, WI

- B.S. in Computer Science and Mathematics
- GPA: 3.9/4.0

May 2027

### Related Courses

- Programming II, Linear Algebra, Calculus III

## COMPUTER SKILLS

- **Programming Languages & Development Technologies:** Java, Python, JavaScript, C++, React, HTML, CSS, JSX, SQL, Node.js, Git, GitHub, Figma
- **Design and Development Methodologies:** Front-End Development, Object-Oriented Programming, Test-Oriented Programming, Web Design

## PROJECTS

### Java Determinant Calculator

- Developed a **Java** determinant calculator for any square matrix.
- Uses three different calculation classes to independently calculate the determinant.
- Includes a **driver** class for users to interact with, a **tester** class to test validity of all classes, and a **runtime** experiment class to compute and visualize runtime of each method
  - Java, Object-Oriented Design, Test-Driven Development

### React Portfolio Website

- **Front End Developed** a personal portfolio website using **React**, hosted on AWS Amplify, updated using **Git** and **GitHub**, and creatively designed with Figma.
- Designed using React Router, Hooks and Effects to maximize functionality
- Implements different **mobile** and desktop designs with **responsive** development strategies to maintain a creative look over all platforms.
- Includes 5 **responsive** pages, with many assets personally designed.
  - Front-End Development, React, JSX, Mobile Development, Git, GitHub

### Python Pokémon TCG API Pack Value Calculator

- Developed a **Python** program to calculate the average estimated expected value of opening any Pokémon TCG pack from 6 sets from the Scarlet and Violet era.
- Implements the Pokémon TCG **API**, which takes vital price information of each card in a set.
- Using analytical algorithms, determines the average expected value to be gained from opening a single pack using independent card probabilities.
  - Python, Object-Oriented Design, API Integration, Data Analysis

## LEADERSHIP EXPERIENCE

### BSA Scouting

2012-2023

- Achieved Eagle Scout Rank
- Lead 15+ people in designing and building 5 benches for Eastman Nature Center

