Matthew Morgan

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OBJECTIVE

To get an internship or co-op starting Summer 2024, to gain more experience in the field of Software Engineering

EDUCATION

Iowa State University Ames, Iowa   Expected Graduation: December 2026
Bachelor of Science, **Software Engineering**   GPA 4.00/4.00

WORK EXPERIENCE

Bear Paddle Swim School, Aurora, IL
Deck Specialist   April 2022– September 2023
- Led team meetings before and after each shift
- Coached up new or struggling teachers to improve quality of lessons
- Communicated with customers to enhance the overall quality of our services
- Ensured that classes in the pool were consistently safe and productive
- Assigned additional roles to teachers, such as cleaning or assisting with other classes

Swim Instructor   September 2021– September 2023
- Taught students the fundamentals of swimming and water safety
- Formed close relationships with many of my students families
- Specialized in teaching students with learning disabilities such as Autism and ADHD

Projects

Camera Based Golf Simulator | Personal Project   October 2023 - Present
- Employed Python and OpenCV to apply multiple filters in order to identify where a golf ball is located in each frame of a slow motion video
- Used the ball's location data to calculate the trajectory and speed of a golf ball directly after impact.

Automated Scheduling System | Personal Project   May 2022– June 2023
- Utilized Python and Google Sheets API to automate tedious processes, such as finding available classes, Identifying overbooked classes and other potential scheduling issues.
- This process was able to limit human error in Bear Paddle Swim School's scheduling system, which greatly improved the consistency and quality of our services.

Sudoku Solver | Personal Project   November 2023 – December 2023
- Applied experience with OpenCV to identify the puzzle isolate each individual cell
- Used EasyOCR to interpret the number is in each cell
- Solved the puzzle using backtracking

LEADERSHIP

- Noble House Cabinet President   September 2023 – Present
- High School Drumline Section Leader   September 2021 - May 2023
- Several Leadership Seminars as a Marching Band Section Leader   September 2021 - May 2023
- Foundations of Leadership Development and Learning Course   August 2023- December 2023

SKILLS

Google Suite, Microsoft Office, MATLAB, Python, Java, OpenCV
Leadership, Customer Service, Problem Solving, Quality Assurance