

Matthew Morgan

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OBJECTIVE

To work an internship or co-op starting Summer 2025, to learn more about emerging technology and how it is being leveraged in industry, especially in the fields of Software Engineering and Data Science

EDUCATION

Iowa State University Ames, Iowa

Expected Graduation: December 2026

Bachelor of Science, **Software Engineering**

GPA 4.00/4.00

WORK EXPERIENCE

Ecolab, Naperville, IL

Artificial Intelligence Intern

May 2024– Present

- Developed Generative AI prototype to demo for the largest Ecolab customer.
- Created a rapid prototyping AI environment for other teams to leverage.
- Shadowed and mentored under the Director of Artificial Intelligence.
- Collaborated with a team of 3 to successfully deliver an AI Innovation for Ecolab's Board of Directors.
- Coordinated with SMEs across divisions to leverage their expertise to accelerate AI development.
- Successfully navigated frequent priority shifts from executive stakeholders on a time critical AI solution.

Bear Paddle Swim School, Aurora, IL

Deck Specialist

April 2022– September 2023

- Organized and led team meetings before and after each shift to improve each teachers' lessons.
- Coached new or struggling teachers to improve quality of lessons and customer satisfaction.
- Communicated with customers to gain feedback and enhance the overall quality of our services.
- Ensured that all classes in the pool were consistently safe, productive and engaging.
- Assigned additional roles to teachers, such as cleaning or assisting with other classes.

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.
- Limited human error in Bear Paddle Swim School's scheduling system, which greatly improved the consistency and quality of our services.

LEADERSHIP

- State Storm Drumline Section Leader September 2024 - Present
- Several Leadership Seminars as a Marching Band Section Leader September 2021 - Present
- Foundations of Leadership Development and Learning Course August 2023- December 2023

SKILLS

Google Suite, Microsoft Office, MATLAB, Python, Pandas, NumPy, OpenCV, TensorFlow, Scikit-Learn, Flask, Gen-AI, Java, C, C++, HTML, CSS, JavaScript, React.JS, TypeScript, Bootstrap, MySQL