

# John D. Korreck

johnkorreck3@gmail.com | (616) 901-7185 | East Lansing, MI

## EDUCATION

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### Michigan State University - College of Engineering

*Expected May 2026*

*BS Computer Science, 3.7 Cumulative GPA*

*Relevant Coursework:* Data Structures and Algorithms, Object-Oriented Programming, Algorithm Engineering, Computer Architecture, Software Engineering, Web Systems, Discrete Structures, Linear Algebra, Calculus III

## WORK EXPERIENCE

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### Kyros Digital

**June 2024 - Aug. 2024**

*Software Engineering Intern*

*Grand Rapids, MI / Remote*

- Developed and integrated web features like form validation and in-app notifications for 5+ forms using TypeScript, Tailwind CSS, and React within Next.js applications.
- Implemented authentication and role-based routing for the entire website to 4 dashboards using Clerk, improving security and dynamic user access.
- Optimized backend API integration with PostgreSQL database, supporting seamless form submission and validation across multiple key workflows.

## PROJECTS

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### WasteLess

*Spartaback 2024*

- Collaborated with a team of four to develop a functional web application that processed images of leftover food items and returned AI generated recipes in order to eliminate food waste.
- Implemented the web app using a svelte framework and used a FastAPI which generated responses from our trained OpenAI model.

### S&P 500 Sentiment Analysis

*Personal Project*

- Created a python web scraper using BeautifulSoup and Transformers libraries that read the most recent news articles about stocks listed on the S&P 500
- Utilized an open source sentiment analysis model to interpret the data and returned the weighted score of the index

## CLUBS & EXTRACURRICULARS

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### Quantitative Finance Club

**Sept. 2023 – Present**

*Member*

- Participated in quantitative problem-solving exercises and gained insights into financial markets and trading strategies.

## SKILLS & INTERESTS

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**Languages :** Fluent in C++, Python. Proficient in JavaScript/TypeScript. Familiar with SQL/PostgreSQL, HTML/CSS.

**Technical Skills :** Git/Github, Supabase, React, Next.js, Docker, Postman