Nathan Kubczak

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EDUCATION

University of Michigan   Ann Arbor, MI

B.S.E Computer Science *GPA: 3.908 / 4.0*   September 2019 - December 2022

Relevant Coursework: EECS 281 - Data Structures and Algorithms, EECS 485 - Web Systems,
EECS 370 - Computer Organization, EECS 376 - Foundations of Computer Science

EXPERIENCE

JP Morgan Chase & Co.   Columbus, OH

Incoming Software Engineer Intern   June 2021 - August 2021

Michigan Solar Car   Ann Arbor, MI

Software Division Lead   September 2019 - Present

- Worked on building Telemetry Graphical User Interface (GUI) using JavaFX. Application allows user to view data from the simulation of the car in the form of charts, graphs, and tables.

- Implemented cruise control for the car using the GUI by sending data packets to the car and choosing an optimal speed based on simulation data. Programmed using JavaFX.

- Aided in training new recruits by guiding them through training projects that taught fundamental coding principles necessary for work on the team.

Michigan Quantitative Investment Society   Ann Arbor, MI

Executive Board Member   January 2021 - Present

- Led a team that developed a pairs trading strategy written in Python. Backtests on the strategy with out-of-sample data revealed the strategy netted a high percentage of returns and a daily Sharpe ratio of 2.05.

PROJECTS

Code for Good Hackathon *Node.js, SQLite, Charts.js*
Worked in a team of five to build an add-on for the nonprofit Ohio Humanities website. Add-on includes a live chat, user reactions for messages, and charts displaying reaction data.

Spotify Bot *Python*
Designed a Python script using the Spotipy library for the Spotify Web API that allows users to create and customize new Spotify playlists based on the user's own library.

Mars Weather *Node.js, MySQL*
Developed an application that uses NASA's Insight Weather Service API that stores past weather data from Mars as well as view weekly weather forecasts.

Haiku Generator *Django*
Developed a Django application that displays randomly generated Haikus using the Wikiquotes API. Haikus are categorized by sentiment using sentiment analysis.

Empty Mug Records *Gatsby*
Designed a website for student run record label Empty Mug Records using the static website generator Gatsby.

SKILLS

Programming Languages:	C++, C, Python, Java, HTML/CSS, SQL, Javascript, Matlab
Technologies:	JavaFX, Django, Flask, React, Spring Boot, Github