

# NATHAN KUBCZAK

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<https://nathankubczak.gatsbyjs.io/>

## EDUCATION

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### 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

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### JP Morgan Chase & Co.

Columbus, OH

*Software Engineer Intern*

June 2021 - August 2021

- Implemented dashboards for several development teams' relational databases across the Consumer and Community Banking Division.
- Increased response time using dashboard alerts for document processing backlogs and failures on client-side applications.
- Created dashboards using SQL, Grafana, and Splunk.

### Michigan Solar Car

Ann Arbor, MI

*Software Division Lead*

September 2019 - June 2021

- 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 by using UDP data transfer between the Telemetry GUI and the car.
- 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 to develop and test an algorithmic trading strategy. Strategy yielded returns of 200%.
- Strategy built using Python, Pandas, and Jupyter Notebook.

## PROJECTS

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### 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 Recycle Bin *Flask, Python*

Designed a Python app using the Spotipy library for the Spotify Web API that implements a recycle bin for when a user removes a track from one of his or her playlists.

### Ann Arbor Eats *Spring Boot, React, Material UI*

Developed an application that allows users to create an account and submit ratings for some of the most popular restaurants in the Ann Arbor area.

### Haiku Generator *Django, Python*

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.js*

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

## SKILLS

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Programming Languages: C++, C, Python, Java, HTML/CSS, SQL, Javascript, Matlab

Technologies: JavaFX, Django, Flask, React, Spring, Node, Git