

# 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. Created dashboards using SQL, Grafana, and Splunk.
- Changed logging for databases involved with document processing jobs to log more information on job statuses and produce clearer error messages on failures. Data sources included Microsoft SQL Server, Oracle Database, and IBM DB2.
- Increased response time using dashboard alerts for document processing backlogs and failures on client-side applications.
- Updated dashboards that were either broken or out-of-date to reflect changes in the data source or business needs.

### 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 Flask application using the Spotipy library for the Spotify Web API.
- App 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 a Spring Boot application that allows users to submit ratings for some of the most popular restaurants in the Ann Arbor area using a REST API.

### Haiku Generator *Django, Python*

- Developed a Django application that displays randomly generated haikus using the Wikiquotes API.
- Haikus are categorized as being positive or negative 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 / Frameworks: JavaFX, Django, Flask, React, Spring, Node, Git, Linux