

# NICHOLAI SHAW

Grand Rapids, MI

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## Summary

Data Analyst proficient in key languages and databases—especially Python and SQL—with a passion of transforming large datasets into coherent narratives. To demonstrate my technical proficiency, I have highlighted three projects that showcase my skills in various programs. I am eager to apply these skills to advance evidence-based product development and clinical evaluations, in line with your mission to provide digital mental health support to students

## Technical Skills

**Programming and Scripting:** Python, JavaScript, VBA | **Data Analysis and Visualization:** Tableau, pandas, scipy, scikit learn, plotly, pyspark, SQLAlchemy, pymongo, Jupyter Notebook, R, PowerBI | **Databases:** SQL (PostgreSQL and MySQL), MongoDB, Apache Spark | **Office Productivity:** Microsoft Office

## Projects

### Machine Learning | [github.com/nicholaishaw/deep-learning-challenge](https://github.com/nicholaishaw/deep-learning-challenge)

- **Purpose:** A machine learning model was created to predict the financial risk of investments by analyzing a dataset of 34,000 organizations that had received prior funding.
- **My role:** Created, compiled, and optimized the model. I also wrote the final report, detailing the accuracy of the model and my recommendations.
- **Tools / languages used:** Python, Jupyter Notebook, pandas, machine learning (scikit learn python library), and Microsoft Excel.

### Extract, Transform, and Load (ETL) | [github.com/nicholaishaw/Crowdfunding\\_ETL](https://github.com/nicholaishaw/Crowdfunding_ETL)

- **Purpose:** A csv dataset was extracted into a jupyter notebook, cleaned in Python, and loaded into a SQL database. An entity relationship diagram for the SQL database was created.
- **My role:** I extracted, transformed, and loaded the data.
- **Tools / languages used:** Python, Jupyter Notebook, Pandas, and SQL.

### Javascript Visualization | [github.com/nicholaishaw/belly-button-challenge](https://github.com/nicholaishaw/belly-button-challenge)

- **Purpose:** With a JSON dataset on bacteria levels, a dynamic visualization was created using javascript and published to github pages.
- **My role:** Created the javascript code and published to GitHub pages.
- **Tools / languages used:** Javascript, plotly, CSS, and HTML

## Experience

### Registered Behavior Technician

**March 2022 – Present**

#### Developmental Enhancement Behavioral Health

Grand Rapids, MI

Administer treatment of applied behavior analysis to children with autism spectrum disorder, collect data on problem behaviors (e.g., aggression, property destruction, tantruming, etc.), and analyze graphs of client's behavior patterns.

### Research Assistant

**October 2019 – May 2021**

#### University of Michigan

Ann Arbor, MI

Specialized in data cleaning with Python, SQL table management, and Tableau visualizations with data from mental health research studies. Additionally, responsibilities included optimizing dashboards and communicating effectively across teams to accomplish goals.

Key Accomplishments:

- Wrote 60-page protocol on MRI data collection
- Edited research presentations under the direction of the principle investigator

## Education

### Certificate in Data Analysis

**June 2023 – November 2023**

#### Michigan State University

Lansing, MI

- Intensive 24-week program focused on gaining technical programming skills in SQL, Tableau, MongoDB, Python, JavaScript, Jupyter Notebook, VBA, Microsoft Office, R, PowerBI, machine learning, and Tableau.

### Bachelor of Arts in Psychology

**August 2014 – May 2019**

#### Hope College

Holland, MI

- Minors: Neuroscience and Sociology
- GPA: 3.48/4.00