

# Samuel D. Pekofsky

805-267-6067 | [sampekofsky@gmail.com](mailto:sampekofsky@gmail.com) | [linkedin.com/in/samuelpkofsky](https://linkedin.com/in/samuelpkofsky) | [pekofsky.github.io](https://pekofsky.github.io)

## EDUCATION

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### University of Wisconsin-Madison – 3.048 GPA

*Bachelor of Science in Data Science, Minor in Computer Science*

Madison, WI

September 2021 – May 2025

## EXPERIENCE

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### Open Source Program Office Intern, clubSandwich

*University of Wisconsin-Madison*

February 2025 – August 2025

Madison, WI

- Contributed to the open source R Package `clubSandwich`
- Implemented new features, wrote unit tests, and updated documentation

### Senior Camp Counselor

*YMCA of Greater New York*

July – August 2023, June – August 2024

New York, NY

- Worked with youth ages 4-12 to create a memorable traditional day camp experience
- Led activities, created lesson plans, and guided campers through frequent outdoor trips
- Mentored and managed junior counselors

### STEM Camp Instructor

*Launch Math + Science Centers*

July – August 2022

New York, NY

- Created a welcoming and engaging experience teaching STEM topics to 4-6 year-olds
- Guided campers through interactive lessons and hands-on projects
- Mentored and managed counselors in training

### Office Staff

*TaxpayerServices NYC, Inc.*

January 2019 – April 2021

New York, NY

- Organized client documents, answered calls, and responded to emails
- Set up and maintained technology

## PROJECTS

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### Volcano Databases | *SQL, MongoDB, JSON*

November – December 2024

- Designed a relational database of volcanoes, their eruptions, and other historical data
- Implemented this database design and loaded in data with MySQL, including JSON schemas
- Transferred data and database structure to MongoDB, including updated JSON schemas

### Deep Learning for Classifying Images | *Python, PyTorch, Git, GitHub*

March – May 2025

- Created a hybrid CNN-transformer model for image recognition
- Trained 12 variations of 2 image recognition models, compared results
- Coauthored a research paper style report of our findings from comparing the different models

### Exploration of Student Habit Data | *R, Markdown*

April 2025

- Performed PCA on student habit data
- Used creative visualizations of PCA results to observe trends

### Car Inventory App | *Java, git*

Mar - April 2023

- Worked with a large group to plan and build a Java app for organizing and viewing car data
- Red black trees were used to allow for efficient reordering and searching
- Designed to be useful both dealerships and customers

Many of my projects can be viewed and downloaded at [pekofsky.github.io/projects](https://pekofsky.github.io/projects)

## TECHNICAL SKILLS

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**Languages:** Python, Java, SQL, R, HTML, Julia, Mongo

**Developer Tools:** Git, GitHub, VSCode, RStudio, Google Colab, Eclipse

**Libraries:** pandas, PyTorch, ggplot2, dplyr, devtools

**Frameworks:** testthat, JUnit, jekyll, Jupyter Notebooks, R Markdown