

Samuel D. Pekofsky

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EDUCATION

University of Wisconsin-Madison – 3.048 GPA

Bachelor of Science in Data Science, Minor in Computer Science

Madison, WI

September 2021 – May 2025

EXPERIENCE

Package Development Intern

University of Wisconsin-Madison Open Source Program Office

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

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

TECHNICAL SKILLS

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