

Samuel D. Pekofsky

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EDUCATION

University of Wisconsin-Madison – Dean's List

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

- Contributed to the open source R Package [clubSandwich](#)
- Implemented new features, wrote unit tests, and updated documentation

Feb – Aug 2025

Madison, WI

Senior Camp Counselor

YMCA of Greater New York

- 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

Jul – Aug 2023, Jun – Aug 2024

New York, NY

STEM Camp Instructor

Launch Math + Science Centers

- 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

Jul – Aug 2022

New York, NY

Office Staff

TaxpayerServices NYC, Inc.

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

Jan 2019 – Apr 2021

New York, NY

PROJECTS

Volcano Database | *SQL, MongoDB, JSON*

- Designed and implemented a relational database with schemas in MySQL
- Transferred data and database structure to MongoDB, including updated JSON schemas

Nov – Dec 2024

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

- Created a hybrid CNN-transformer model for image recognition
- Trained 2 models with 6 variations, cross compared in research paper

Mar – May 2025

Twitter Sentiment & Topic Modeling | *Python, Pandas, VADER, pyLDAvis, LaTeX*

- Processed and analyzed nearly 2 million tweets from America's 2020 election cycle
- Formatted and coauthored a research paper with prior work, process, findings, and visualizations

Oct – Dec 2024

NYC Arrests Analysis | *R, R Markdown, Tidyverse*

- Cleaned, engineered, analyzed, and visualized data on over 2 million of NYPD's arrests
- Clean report with statistical analysis and visualizations

Mar – May 2024

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

- Processed and engineered student habit data to use for PCA
- Used creative visualizations of PCA results to observe trends

Apr – Apr 2025

US Migration Flows | *R, R Markdown, Tidyverse, Shiny, tigris, sf, Leaflet, Git, GitHub*

- Detailed report exploring US migration data over a span of 5 years
- Includes extensive data processing, visualizations, a hosted shiny app, and meticulous analysis

Feb – May 2025

Many of my projects can be viewed and downloaded at pekofsky.github.io/projects

TECHNICAL SKILLS

Languages: Python, JavaScript, SQL, R, Java, HTML, CSS, Julia, Mongo

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

Libraries & Frameworks: pandas, PyTorch, Flask, Selenium, jekyll, testthat, JUnit, ggplot2, dplyr, devtools