

# Cooper Olney

591 Twin Peaks Road  
Waterbury Center, VT 05677

802-777-4332  
[colney2023@gmail.com](mailto:colney2023@gmail.com)

## PROFESSIONAL EXPERIENCE

---

### **PQRC – St. Lawrence University – Canton, New York**

**August 2025-present**

*Peer Mentor*

- At the Peterson Quantitative Resource Center (PQRC), assist students in developing quantitative reasoning and problem-solving skills by supporting introductory statistics, computer science, and math courses.

### **Nature Up North – St. Lawrence University – Canton, New York**

**November 2024-present**

*Computer Science Intern*

- Optimized image processing by consolidating multiple Python scripts into a single, efficient program. Minimized external dependencies, relying only on essential Python libraries (pyexif, Pillow) to improve accessibility for non-programmers. Enhanced workflow with features like image resizing and metadata editing.
- Designed and implemented a web application using Flask (python framework) that allows users to upload images directly to the organization's database, handling both front-end interface design and back-end functionality.

### **SCORE Network – St. Lawrence University – Canton, New York**

**May 2025-July 2025**

*Summer Fellowship*

- Contributed to a National Science Foundation funded national network aimed at improving undergraduate data science education through open-access, sports themed teaching materials.
- Designed and developed 6 interactive teaching modules using R and real-world sports data, tailored to core learning goals in undergraduate statistics and data science courses. Curated datasets and the accompanying in-class materials.
- Created and documented 8 open-ended data repositories, enabling flexible use by professors and students for exploratory analysis, research, or classroom projects. Included contextual overviews, variable definitions, and suggested questions. Uploaded all materials to GitHub for publication on the SCORE website.
- Presented fellowship findings at a poster presentation, communicating the design and impact of interactive teaching modules and open-access data repositories. to faculty and peers.

### **KORE Power – Waterbury, Vermont**

**May 2024-August 2024**

*Software Engineer Intern*

- Initiated development of a machine learning model to predict battery state of charge, utilizing Python and scikit-learn for regression and XGBoost models. Cleaned and stored battery system data in a database for analysis.
- Build seven dynamic dashboards for the Network Operations Center, displaying real-time ISO energy market data via JSON. Utilized HTML, PHP, CSS, and JavaScript for development
- Enhanced functionality and styling of the company welcome screen and multiple Network Operations Center displays by optimizing HTML, CSS and JavaScript.

**Stowe Country Club – Stowe, Vermont**

**June 2023-August 2023**

*Golf Services*

- Opening and closing responsibilities
- Customer service
- Cleaning and preparing carts & golf bags

**Crossroads Beverage & Deli – Waterbury, Vermont**

**May 2022-August 2022**

*Ice Cream Window Server*

- Opening and closing responsibilities
- Customer service & cash register duties
- Scooping ice cream and making milkshakes

## **EDUCATION**

**St. Lawrence University – Canton, New York**

- Bachelor of Science in Data Science
- Expected Graduation: May 2027

**Harwood Union High School – Duxbury, Vermont**

- Graduation: June 2023