

# Samuel L. Lothrop

| (952)-258-3893 | SLlothrop@gmail.com | samlothrop-portfolio.vercel.app | linkedin.com/in/samuel-lothrop-b1a7b71a8 |

## EDUCATION

### Miami University

Oxford, OH

- *B.S in Computer Science | GPA: 3.31 attending Miami University*  
*Club/Activities: Miami Cybersecurity Club, Co-ed Volleyball, Co-ed Broomball, Miami Water Ski Team*
- *M.S in Computer Science attending Miami University*  
*Club/Activities: Miami Cybersecurity Club, Co-ed Volleyball*

## PROJECTS

### Miami CTF

Oxford, OH

*Developer/Tester*

- Studied and applied cybersecurity subdomains creating puzzles for our CTF (capture the flag) event
- Efficiently document and report findings/challenges within git lab along with an ubuntu server
- Taught incoming cyber students, 25 classes, the fundamentals and importance of cybersecurity through presentations and application demonstrations
- Represented the schools Cybersecurity club, hosting a school wide CTF event

### Shelf Inc.

Oxford, OH

*Software Engineer/Project Manager*

- Worked within a team to design and produce a library catalog using an agile development plan
- Managed primary communication between team and customer
- Organized times/tasks and designed diagrams for front-end and back-end development
- Built the front-end design of the library catalog along with the database structure

### Parkinson's Disease Diagnostic Tool

Oxford, OH

*Researcher/Developer*

- Developed SVM ML model analyzing audio samples to detect Parkinson's disease through vocal biomarker extraction.
- Implemented hyperparameter and parameter analysis for model tuning producing an accuracy of 98.96% of 480 data samples
- Preprocessed data splitting audio samples into MFCC channels prioritizing channels for improved model performance

## Work EXPERIENCE

### TPC Landscaping

Savage, MN

*Landscaper/Foreman*

June 2016 – August 2023

- Developed advanced proficiency in teamwork, communication, design, and techniques.
- Accumulated 7 summers of hands-on professional landscaping experience with consistent skill progression and personal growth.

### Volleyball Coach

Hamilton, OH

*Assistant Coach*

October 2024 – May 2025

- Contributed to team development by assisting with practice planning, fostering a positive, collaborative team environment.
- Supported head coach in developing strategic gameplay and skill training for U16 girls' volleyball team, enhancing players' technical abilities and team performance.

## TECHNICAL SKILLS

**Languages:** Java, HTML, CSS, JavaScript, MySQL, NoSQL, SAS, Python, R, C++, PHP, AJAX

**Frameworks:** React, Flask, TensorFlow, PyTorch, Scikit-learn

**Developer Tools:** Gitlab, Docker, MySQL Workbench, Jupyter Notebook, VS Code, R Studio, Google Colab