

# Xavier Silva

(269) 373-1930 ■ [xavierwsilva@gmail.com](mailto:xavierwsilva@gmail.com) ■ [www.linkedin.com/in/xwsilva](https://www.linkedin.com/in/xwsilva) ■ <https://github.com/RochX>

## Education

### **Kalamazoo College**

**Bachelor of Arts, 2024**

*Mathematics and Computer Science double major*

GPA: 3.988

**Recognitions:** Honors in Mathematics (*summa cum laude*), Heyl Full Tuition Scholarship, Phi Beta Kappa

### **Relevant Projects:**

#### *Icosahedral Virus Transitions (Senior Thesis)*

- Developed a multi-threaded data analysis algorithm in Python to understand how certain viruses transform over time.
- Presented research to Kalamazoo College Board of Trustees.
- Speaker at the 2023 West Michigan Regional Undergraduate Science Research Conference with over 150 in attendance.

#### *HornetHQ 2.0 Prototype*

- Developed a prototype of an improved course selection website using React to engage with issues of the current course selection software at Kalamazoo College.
- Collaborated in a team of over 12 people.

### **Relevant Coursework:**

#### Advanced Software Development

- Obtained hands-on experience with Agile methodology in small teams.

#### Data Science, Machine Learning

- Learned techniques to explore complicated data sets.
- Analyzed data sets and selected appropriate models to evaluate them.

### **Budapest Semesters In Mathematics, Hungarian Study Abroad**

**2022**

- Advanced mathematics program that provides an opportunity for North American students to learn mathematics in the Hungarian tradition.

## Experience

### **Teaching Assistant for Kalamazoo College Mathematics Classes**

**2023 - 2024**

- Created learning environments that encourage student's critical thinking.
- Conducted weekly independent office hours with consistent student engagement.
- Graded homework for mathematics classes, required working closely with professors.
- Delivered accurate and concise feedback to over 20 students, facilitating significant improvements in mathematical proof writing.

### **Mathematics Departmental Student Advisor at Kalamazoo College**

**2023 - 2024**

- Served as an academic role model by representing the mathematics department in a faculty-nominated position.
- Navigated College systems to provide helpful guidance to peers on course planning, class registration, major exploration, and academic success.

### **Teaching Assistant for Kalamazoo College Computer Science Classes**

**2022**

- Assisted students in computer science labs leading to significant grade improvements.
- Facilitated a learning environment where students were able to discover solutions for themselves by holding weekly independent office hours.

## Skills

**Computer Languages:** Java, C++, Python, R with Tidyverse package, HTML, CSS, JavaScript, React

**Computer Software:** Git/GitHub, Linux, JetBrains IDEs, VS Code, LaTeX, Microsoft Office

**Computer Hardware:** Built and repaired multiple personal computers, Computer Networks

## Community Involvement

### **Percussion Instructor at Portage Northern High School**

**2023 - 2024**

- Facilitated a learning environment for over 30 students at a professional level.

### **North American Guild of Change Ringers Member**

**2022 - Present**

- Jeff Smith Young Ringer Award 2024