Xavier Silva

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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.
- Created technical documentation for research mentors to continue research.
- Invited research presenter to Kalamazoo College Board of Trustees.
- Nominated speaker at the 2023 West Michigan Regional Undergraduate Science Research Conference with over 150 in attendance.

HornetHQ 2.0 Prototype

- Developed and presented 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 data analysis techniques to explore complicated data sets.
- Analyzed data sets using scikit-learn 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 to guide students towards optimal solutions.
- 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-appointed 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, MacOS, 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