

Benjamin Weber

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Lake Oswego, OR

(971) 246 - 4736

EDUCATION

B.A. Mathematics and B.S. Computer Science, Willamette University

3.89 GPA (Currently Enrolled)

May 2024

Salem, OR

RELEVANT COURSEWORK

Mathematics:

- Mathematics of Secret Codes
- Foundations of Advanced Math
 - Proof Writing Course
- Multivariable Calculus
- Topology
- Linear Algebra
- Statistics
- Real Analysis I
- Computational and Discrete Geometry
- Real Analysis II
 - (Currently Enrolled)
- Probability and Computing
 - (Currently Enrolled)
- Junior Research Seminar [Graph Theory]
 - (Currently Enrolled)

Computer Science:

- Intro Programming with Python
- Data Structures
- Software Development
 - (Currently Enrolled)

EXTRACURRICULAR MATHEMATICS EXPERIENCE

Mathematics Tutor, Willamette University Mathematics Department

22/23 Academic Year

- Provided drop-in math tutoring two hours a week
- Assisted in students' mathematical proof writing and solving
- Tutored for multimal math classes including Calculus, from Pre-Calculus to Multivariable, Linear Algebra, and Foundations of Advanced Math with a focus on foundations which is a introductory proof writing course.

Math Club Attendee Willamette University Mathematics Department

21/22 & 22/23 Academic Year

- Participated in weekly meetings of 10 students to play board games and talk about mathematical ideas

LEADERSHIP EXPERIENCE

Resident Advisor, Willamette University Housing

21/22 & 22/23 Academic Year

- Planned and implemented programs designed to promote community engagement among residents for audiences of up to 300 students
- Responded to urgent situations while participating in 15-24 hour on-call rotations of 300 students
- Facilitated a positive living environment through hall events, hall decorations, and resident interaction for 24-27 residents.

VGC [Video Game Club] Executive Team, Willamette University

22/23 Academic Year

- Facilitated weekly two-hour meetings of 10-20 members.
- Directed requests for funding, club advertising, and large-scale co-club event planning.
- Organized and facilitated multiple video game tournaments for 20-30 participants

TALKS

- Presented to a class of 15 students the linear algebra behind computer graphics in April 2021
- Presented two and three-dimensional triangulations of polygons, polyhedra, and point sets in a digestible format for 25 highschoolers at Woodburn High School on December 9th 2022
- [Colloquium Research Talk based in Graph Theory April 2023]

SKILLS

Technological Knowledge

- Experience in LaTeX
- Experience in Python
- Experience in Javascript