

## Zachary Gurwitz

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### OBJECTIVE

Software Engineering position using algorithmic, mathematical, and communication skills.

### EDUCATION

**University of Maryland (UMD)**, College Park, MD

December '22

*Bachelor of Science in Mathematics/Computer Science*

GPA: 3.775

- *Member:* Gemstone Honors Program, Directed Reading Program, Trading Card Club
- *Selected UMD Coursework:* Design and Analysis of Algorithms, Applications of Linear Algebra, Advanced Functional Programming, Object Oriented Programming, Technical Writing
- *Research:* Gemstone team BCIPRO, where we research into improving current-day upper-arm prosthetics.  
[bcipro.github.io](https://bcipro.github.io)

### RELATED EXPERIENCE/PROJECTS

*Lab Assistant, Araneda Lab*, College Park, MD

Fall '21

- Wrote code in python to run data analysis on experiments in MATLAB.
- Communicated with the lead of the experiment to give useful outputs that are easy for non-coders to understand.

*TourneyShots, BakkesMod for Rocket League*, own project

January '22

- Wrote code for a plugin in C++ that added a scoreboard to the game.
- Used online resources to learn how to write a new plugin for already existing software.

### LEADERSHIP EXPERIENCE

*Math Coach Leader (MCL), Math Success Program*, UMD, College Park, MD

Spring '20 – Fall '22

- Offer coaching support to groups of students who need extra support or review of math skills and concepts.
- Help to create a welcoming environment for all students who wish to utilize the services of the Math Success Program and help to promote confidence in math related knowledge bases.
- Collaborate with Math Coaches to offer support to large volumes of students

### SKILLS

**Programming Languages:** Java, Haskell, C, C#, C++, Python, Processing, MATLAB

**Software Engineering:** Design efficient algorithms, get deliverables with specified functionality, make computer graphics for games or data representation, research functionalities in many programming languages.

**Mathematics:** Linear algebra, differential equations (ordinary and partial), computational methods, contest math.

**Interpersonal:** Communication, teamwork, efficiency.

### HONORS

- *Dean's List for Fall 2019, Fall 2020, Fall 2021, Spring 2022, and Fall 2022*, awarded to students who complete 12 or more credits with a semester GPA of 3.5 or higher.
- *Gemstone Honors Program*, design, direct and conduct significant research under guidance of faculty mentors and Gemstone staff. [gemstone.umd.edu](https://gemstone.umd.edu)