**Zachary Gurwitz**

3711 Campus Dr., College Park, MD 20740 #358 • [zgurwitz@terpmail.umd.edu](mailto:zgurwitz@terpmail.umd.edu) • (516)680-6399 [linkedin.com/in/zachary-gurwitz](https://www.linkedin.com/in/zachary-gurwitz) • [github.com/zgurwitz](https://github.com/zgurwitz)

**OBJECTIVE**

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

**EDUCATION**

**University of Maryland (UMD)**, College Park, MD Expected December ‘22

*Bachelor of Science in Mathematics/Computer Science*  GPA: 3.814

* *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 ‘22

* 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 – Present

* 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, and Spring 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)