

Marcus Gozon

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Education

University of Michigan | 3.92/4.0

Ann Arbor, MI

Bachelor of Science, Computer Science

Aug. 2021 – April 2025

Bachelor of Science, Honors Mathematics

Aug. 2021 – April 2025

- **Relevant Coursework:** Honors Math I and II (Advanced Calculus and Linear Algebra), Honors Differential Equations, Honors Multivariable & Vector Calculus, Intro to Combinatorics, Intro to Modeling Political Processes, Honors Analysis I, Data Structures and Algorithms, Foundations of CS (Theory of Computation), Honors Physics I
- **Activities and Societies:** UM's Competitive Programming Team
- **Main Technical Skills:** C++, Java, Unity, C#, Python, NumPy
- **Other Technical Skills:** Git, JavaScript, React, Firebase, Mathematica, HTML, CSS

Experience

Undergraduate Researcher

Oct 2022 – present

University of Michigan

Ann Arbor, MI

- Developing predictive algorithms on federated tensorflow framework and comparing performance of privacy aware inference models to standard inference models in the context of medical AI

Computer Science Team Captain

Oct 2020 – May 2021

Pioneer High School

Ann Arbor, MI

- Taught other students Data Structures and Algorithms common throughout CS competitions every other week
- Created many resources including guides and problem sets for members
- Received the Ray Pittman Award for contributions to the coding team

Math Club Founder and President

Sep 2020 – May 2021

Pioneer High School

Ann Arbor, MI

- Taught other students advanced mathematics common throughout math competitions every week
- Created many resources including guides and problem sets for members
- Received the Mary Strand Danforth Award for contributions to mathematics at Pioneer

Projects

Maze Generator | *Unity, C#*

- Developed a mobile game that generates its own mazes by using a randomized minimum spanning tree
- Generated collectibles randomly within the maze and designed a shop to increase user engagement

Image Resizer | *C++*

- Implemented a content-aware image resizer by using dynamic programming

Galaxy Escape | *Java, Greenfoot*

- Created a planet-based platformer by implementing object positioning, the camera view, zooming, collision, and planetary gravity

Infinite Maze | *Unity, C#*

- Prototyped a non-euclidean maze based off of a prefix tree as a novel environment for future games

Color Board | *Unity, C#*

- Invented a board game with scoring based on adjacent edges and edge streaks by utilizing a disjoint set

Awards

William Lowell Putnam Mathematical Competition Top 500

Ann Arbor, MI | February 2022

- Placed 352th on a challenging proof-based math test given to undergraduate students in the nation

Alice Webber Glover Math Scholarship

Ann Arbor, MI | May 2021

- Received from UM's math department for impressive achievement in mathematics

USA Computing Olympiad Platinum Division

Ann Arbor, MI | April 2021

- Competed in algorithmic contests to reach Platinum Division, which is composed of the top 350 pre-college students

Michigan Mathematics Prize Competition Bronze Medal

Ann Arbor, MI | March 2020

- Ranked 43rd overall from over 4000 students on a two part math examination