

# Andrew Cupps

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## Education

**B.S. Computer Science; B.S. Astronomy**

May 2026

*University of Maryland – College Park*

- UMD Honors College – Honors Global Communities

## Skills

- **Programming Languages:** Java, JavaScript, LaTeX, Matlab, R
- **Software:** Eclipse, Matlab, Visual Studio Code, RStudio, MS Office Suite

## Projects

**ALPACA** (*Platformer Video Game, Java*)

Sept-Dec

Backend Developer

2021

- Created a game engine for a platformer video game with an emphasis on project scalability, allowing for entire game levels and objects to be created with just a few lines of code.
- Implemented game physics, collision mechanics, and an intuitive and responsive user-controlled gameplay system.
- Developed a graphical tiling algorithm which allows for game objects to reuse a single tile-set image and automatically generate textures where needed.

**Schreckliche Seuche** (*Disease Spread Simulator, Java*)

Mar-May

Full Stack Developer / Project Designer

2022

- Designed and executed an object-oriented simulation to model disease spread, incorporating various factors based on user inputs.
- Wrote algorithms to generate live graphical visualizations of data relating to simulated disease spread.
- Optimized code to allow for expansion of simulation capabilities by reducing operation runtime and memory requirements.

**RStudio – HGLO101** (*Multiple Small Projects, R*)

Aug 2022 -

Present

- Gather data from various online resources and databases.
- Use tidyverse packages such as dplyr and tidyr to convert untidy CSV datasets into usable tidy frames.
- Utilize ggplot2 library to convert tidied data into clear, understandable graphs.

## Experience

**Jersey Mike's Subs & Sandwiches of Timonium**

Mar-Aug

Team Member

2022

- Performed various customer-service tasks in a fast-paced environment, including taking orders, preparing sandwiches, and cashiering.
- Executed operations fundamental to store function, such as cleaning, organizing deliveries of food and supplies, and preparing food between rushes.