

Andrew Cupps

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Education

B.S. Computer Science & B.S. Astronomy

May 2026

University of Maryland (UMD) – College Park

- UMD Honors College – Honors Global Communities
- President's Scholarship Recipient

Skills

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

Projects

ALPACA

Sept-Dec

Platformer Video Game, Backend Developer

2021

- Created the basis for a platformer video game in **Java** by implementing game physics, collision mechanics, and user-controlled gameplay.
- Enhanced the level-design process for three frontend developers by creating functions consistently used to generate game objects.
- Reduced required files for object rendering to one per texture type through a custom algorithm and tile-set recycling.

Schreckliche Seuche

Mar-May

Disease Spread Simulation, Full Stack Developer

2022

- Modelled the spread of a disease through a community of hundreds of households in **Java**, incorporating various factors based on user inputs into an object-oriented simulation.
- Visualized total infections, active infections, and deaths with three continuously updated graphs using **Slick2D** based on simulation data.
- Collaborated with a team of two peers primarily using **GitHub**.

Data Science in R

Aug 2022 -

Honors Global Communities, Student

Present

- Convert dozens of untidy CSV datasets into usable tidy frames using **tidyverse** libraries, including **dplyr** and **tidyr**.
- Effectively visualized hundreds of thousands of datapoints by reducing data to individual graphs utilizing **ggplot2** and **gganimate**.

Experience

Jersey Mike's Subs & Sandwiches of Timonium

Mar-Aug

Team Member

2022

- Worked with three to four other team members at a time to perform various food-service tasks in a fast-paced environment, including taking orders, preparing sandwiches, and organizing deliveries of food and supplies.