Andrew Cupps

at.cupps@gmail.com | (410) 404-3727 | github.com/atcupps

Education

B.S. Computer Science

May 2025

University of Maryland (UMD) - College Park

GPA: 4.00

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

Skills

- **Programming Languages:** Java, R, Matlab, JavaScript, Python, C++
- Software & Tools: Eclipse, JUnit, RStudio, LaTeX, GitHub, Matlab, VS Code

Projects

Schreckliche Seuche

Mar - May 2022

Disease Spread Simulation, Full Stack Developer

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

Data Science in R

Aug 2022 - Present

Honors Global Communities, Student

- Automate conversion of CSV and Excel filetype datasets into usable frames via **tidyverse** libraries, notably **dplyr** and **tidyr**.
- Effectively analyze, reduce, and extract relevant data from various sets spanning millions of datapoints.
- Visualize data through standardized themes using **ggplot2**.

 JSENN Dec 2022 - Present

Neural Network Evolution Simulation, Solo Developer

- Implemented simplex noise libraries to generate a scalable, naturalistic 2D terrain map.
- Design and write a library in **Java** for creation and use of genetics-based neural networks requiring use of only eight commands but providing a further set of methods for neural network customization.
- Use **AWT** and **Swing** to efficiently update and render neural networks and simulation objects at custom framerates and window sizes.

Experience

Jersey Mike's Subs & Sandwiches of Timonium

Mar – Aug 2022

Team Member

 Worked with two 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.