

Patrick Scott

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EDUCATION

University of Maryland, College Park

August 2021 - May 2025

Bachelor of Science in Computer Science, Bachelor of Science in Economics

GPA 3.85

- *University Honors Certification* - Awarded for completing two year multidisciplinary program focused on completing capstone project

EXPERIENCE

The Catalyst, Lead Web Developer

December 2023 - Present, College Park, MD

- Built Website for the The Catalyst, the UMD biomedical journal from scratch using javascript, HTML, and css, collaborated with leadership team at The Catalyst to create website along specific specifications
- Lead team of 4 students in updating and maintaining website

Danger Buoy Games, Software Engineering Intern

June - August 2023, Santa Clara, CA

- Completed projects for games in development, making tools to model terrain by simulating rainfall erosion on landscapes, focused on making simulation tools intuitive and customizable to model a range of different landscapes
- Optimized terrain modeling and simulation algorithms to render quickly while looking realistic and being customizable by combining research in computer simulation and geology

Maryland Adventure Program, Adventure Trip Leader

January 2023 - Present, College Park, MD

- During academic year, lead single day and overnight adventure trips for 6 to 20 UMD students around the DMV area, focused on experiential learning and personal growth
- Practice skills in planning, organizing, communication, problem solving, and leadership

PROJECTS

Analysis of Lego Trends

March - April 2024

- Used machine learning models of KNN, K means, and linear regressions to analyze the ways that lego sets and themes have changed over time
- Used the rebrickable api for data collection, pandas for setting up dataframes, and sklearn for machine learning models

Water Erosion of Terrain Simulation Tool

June - July 2023

- Create an interactive simulation tool with C# scripts in unity where users could control effects such as gravity, precipitation, evaporation, and carrying capacity of water
- Used Unity terrain data package to track and update heights of terrain and see terrain simulated in real time

SKILLS

- *Programming languages:* Java, python, javascript, C++, C, OCaml, C#, MATLAB, SQL, R, Stata
- *Development tools:* Git, Eclipse, Docker, Linux, Excel, Unity
- *Libraries/Frameworks:* pandas, NumPy, sklearn, PyTorch, Flask, React.js

AWARDS

President's Scholarship - 2021 - Present

Eagle Scout - Earned in 2019