Sean Young-Taek Im

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EDUCATION

University of Maryland, College Park   **College Park, MD**

Bachelor of Science, Computer Science & Mathematics   *Expected June 2024*

GPA: 3.2

Coursework: Object-Oriented Programming, Intro to Computer Systems, Discrete Mathematics, Algorithms, Web Application Development with Javascript, Intro to Immersive Media, Linear Algebra, Calculus 3, Partial Differential Equations, Intro to Mathematical Proof, Geometry for Computer Applications

PROJECTS (Available on GitHub)

Inverse Kinematics (2-Arms 2D) Simulation   *September 2022*

- Developed a web-based, real-time interactive application using Three.js library and JavaScript.
- Implemented and visualized inverse kinematics equation which simulates rotation of arm joints based on mouse position.

2D Fractals with Chaos Game   *October 2021*

- Rendered vertices using C++, OpenGL, and GLSL.
- Modeled a variety of 2D fractals based on Chaos Game.

Interactive Personal Website   *September 2022*

- Developed a personal website for showcasing projects using HTML and CSS.
- Developed a real-time interactive visual media in the background using GLSL shader and Three.js library.

ACTIVITIES

Directed Reading Program   **College Park, MD**

Sep 2022 - Dec 2022

Topic: Mathematical Models in Epidemiology.

Weekly meeting with a graduate student mentor for semester independent study projects.

SKILLS

Programming Language: Java, JavaScript, C, C++, C#, HTML, CSS

Graphics: GLSL, Three.js, Godot, Unity, Unreal Engine, OpenGL, Vulkan