## RYAN TIAN

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#### **EDUCATION**

## Carnegie Mellon University

BSA Architecture and Mathematics

Sep 2021 – Present Pittsburgh, PA

#### **SKILLS**

- Software Programming: proficient in Java, python, c
- 3D Modeling: Rhino, AutoCad, Inventor, Fusion 360, Blender, generative Modeling, procedural Modeling
- Communication & Presentation: clear written and spoken communication in architectural review, consistently high-performing presenter with great supporting knowledge and satisfying answers
- UI/UX Design: extensive experience in 2D and 3D design, understanding in social psychology, iOS Swift Experience
- Architectural Development Experience: human-focused design, spatial organization, material and construction understanding, experience working with client requests and building regulations
- Architectural Technology Integration: Enhancing the way humans interact with spaces through building technologies, Custom programming shaders for visualization and procedural systems for spatial design

#### RELEVANT EXPERIENCE

# University of Michigan

Autonomous Driving Research Assistant

June 2019 - Sep 2019

Ann Arbor, MI

- · Optimized sorting algorithms in Visual Basic to effectively sort sensor data
- Built detailed 3D location reproductions for simulation and presentation

## Carnegie Mellon University

Residential Assistant

June 2022 – Present Pittsburgh, PA

- Ensured physical, mental, and emotional health of college students.
- · Developed co-curricular curriculum to engage students in developing cultural competence

# CMU Game Creation Society - Waves Team 3D Generalist

Aug 2022 – Present

Pittsburgh, PA

- Created attractive stylized mesh 3D models to fit creative vision and gameplay
- Implemented new character and environment concepts while collaborating on existing formulas

#### **PROJECTS**

**Python First Person Shooter Game** Python - Tkinter https://youtu.be/BzYy\_1FvTu0 Vintage 3D graphics, A\* path finding, and a procedurally generated map to provide a retro experience.

### C Virtual Machine Implementation C, CO

Simulation of virtual machine in C that handles low-level data and memory manipulation.

## Architectural Projects - see Portfolio