Zachary Russ	SKILLS	EXPOSURE
≅ (803) 341-4346 · ⊠ zruss0819@gmail.com · □ www.zacharyruss.com North Augusta, SC	C++BlenderPython	 Java JavaScript MySQL
EDUCATION		
Bachelor of Science in Computer Science		May 2022
Clemson University		Clemson, SC
Minor: Digital Production Arts		GPA: 3.5/4.0
WORK EXPERIENCE		
Research Assistant		Jan – July 2022
Motion Planning Lab, Clemson University		Clemson, SC
 Collaborated with Dr. Ioannis Karamouzas and Alex Day on a large Ro 	OS-based social	
navigation robotics project		
Automated XML scenario generation using C++		
 Created a visualizer in Unity/C# to view and playback robot navigation 	n recordings	
VOLUNTEER EXPERIENCE		
Graphic Design Experience		2016 – Present
Camp Grace Design Committee		North Augusta, SC
 Composited family portraits in Blender with green screen 		
 Designed annual logos for a local church retreat 		
PROJECTS		
VR Animal Population Simulator in Unity		Sep 2021
University VR/Unity/C# Project		Clemson, SC
 Created an educational VR game in Unity about animal populations 		
 Implemented hunger, thirst, aging, and reproduction in the animals 		
 Collaborated with two other developers 		
Mandelbrot Set Exploration Application		Feb – Apr 2022
University C++/OpenGL Project		Clemson, SC
 Created a Mandelbrot set exploration application in C++/OpenGL 		
• Implemented bilinear interpolation, dynamic pixel skipping, and colori	ing techniques	
Awarded the Outstanding Undergraduate Project award from Clemson	n University's	
School of Computing for the project	•	
Ray-Tracer		Feb – Apr 2022
University C++ Project		Clemson, SC
• Wrote a ray-tracer from scratch in C++		, ~ C
Extended the project by implementing shadows and multi-sample anti-	aliasing	
Sever		Nov 2022 - Present
Personal Unity/C# Project		North Augusta, SC
		Tiorin Augusta, SC

Began writing a point-and-click game-building system in C# for Unity Designed a controller that can play multiple animations simultaneously Created clickable interactables that move the player or play animations