Brett Schiff

https://www.linkedin.com/in/brett-schiff brettschiff@gmail.com brettschiff.com 636-233-0949

Software Developer

T am =	Duoficioner		T	
Languages, Skills and	Proficiency:		Familiarity:	
Software:	C++	SVN	Lua	Clang
Cort ware.	C Visual Studio	Doxygen Windows	C# Java	Unity Agile Development
	Git	WINGOWS	JavaScript	Agile Development Oracle VM VirtualBox
	GNU Compiler		HTML	Linux
Academic	Shortstack(team of 6)	Physics Progr	rammer A	ugust 2017 - May 2018
	Shortstack is a 2D, local co-op, side-scrolling platformer where players are gnomes			
Projects:	who stack on each other to combine abilities built in a custom engine made in C++. • Designed and implemented the physics system in C++ • Separating Axis Theorem(SAT) for collision detection • Utilities: raycasting, debug hitbox display, point collision for particles • Worked with ImGui to incorporate physics into the game's editor • Contributed to gameplay programming in Lua – primarily enemy AI			
	Relics of Light(team of	4) Physics Progr	rammer Au	ugust 2016 - May 2017
	Relics of Light is a top-down 2D puzzle-adventure game featuring open-world exploration, puzzle challenges, and unlockable character abilities built in a custom engine made in C. • Created the physics system in C using SAT for collision detection			
	Developed input system using a wrapper around GLFW			
	Designed the overv	esigned the overworld and all underground puzzles in Tiled		
Education:	BS in Computer Science and Real Time Interactive Simulation Expected Graduation May 202			
Work Experience:	TA Positions: Algorithm Analysis and Advanced C/C++ I am currently a TA in two classes at DigiPen: CS330(Algorithm Analysis) and CS225(Advanced C/C++). The job entails holding office hours to help students in the classes and grading assignments/exams. ProjectFUN A summer camp offered through DigiPen where game development skills are taught to kids. My roles: TA and Lead Teacher in the Video Game Programming 1 course—using Java in a custom engine Lead Teacher in the Artificial Intelligence for Games course—AI fundamentals and important related mathematics taught in the Zero Engine			
Personal	Neural Network December 2017 - July 201			
Projects:	 A neural network capable of self-training by selection and blending of most fit networks in a population. Current Features: Backpropogation and Serialization Tests: averaging numbers and playing a simple ASCII game Mixing of different neural networks in addition to backpropogation for increased learning rates and simulation of "evolution" for self-training 			
	Break the Board			August 2018
	A game created for Ludum Dare 42 with the theme <i>Running out of Space</i> in Unity. I plan to polish it up a bit more and publish it on the Google Play Store.			
	Poco July 2018 - Present			
	A game created in Unity where the player moves using a polar coordinate system to dodge randomly			

spawning obstacles in an infinite 'runner.' It will be released on the Google Play Store.