Brett Schiff

Break the Board

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August 2018

Software Developer

- Contivure Developer						
Languages,	Proficiency:			Familiarity:		
Skills and	C++	Git	SVN	C#	HTML	Agile Development
Software:	С	GitHub	Doxygen	Java	Clang	Linux
	Visual Studio	GNU Compiler	Lua	JavaScript	Unity	Bullet Physics Engine
Academic	Cat's Cradle (team of 9) Physics and Al Programmer August 2019 - Present					
Projects:	 yarn to solve puzzles and explore levels Implemented the Bullet Physics Engine for physics Used ImGui to make physics usable in the game's editor Implementing a Behavior System using Behavior Trees (In Progress) 					
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	Shortstack (tea	•	Physics Pro	=		lugust 2017 - May 2018
	Shortstack is a 2D, local co-op, side-scrolling platformer where players are gnomes 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 **West 2018**					
	Worked with ImGui to incorporate physics into the game's editor					
	Contributed to gameplay programming in Lua – primarily enemy Al					
	Relics of Light (team of 4) Physics Programmer August 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 overworld and all underground puzzles in Tiled					
Education:	DigiPen Institute of Technology Expected Graduation May 2020					
	BS in Computer Science and Real Time Interactive Simulation – GPA 3.7					
Work	TA Positions: September 2018 - Present					
	Advanced C/CLL Algorithm Applysis Data Structures					
Experience:		– December 2018	_	018 – Present	Jä	anuary 2019 – Present
	Primarily holding office hours to help students in the classes and grading assignments/exams.					
	ProjectFUN June 2018 - August 2018					
	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 Lead Teacher in the Artificial Intelligence for Games course—Al fundamentals and import 					
related mathematics taught in the Zero Engine						
Selected	Neural Network December 2017 - July 2018					
Personal	A neural network capable of self-training by selection and blending of most fit networks in a population.					
Projects:	 Backpropagation, Serialization, and Tests: averaging numbers and playing a simple ASCII ga 					
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	 Genetic Algorithm incorporation for Reinforcement learning by simulation evolution 					
	Drook the Beer	. 1				August 2010

A game created for Ludum Dare 42 with the theme *Running out of Space*, developed in Unity. I plan to polish it up a bit more and publish it on the Google Play Store. Of the about 1000 entries in the Compo

competition, it was rated 96th overall, 83rd in fun, and 58th in innovation.