## TRISTAN JAMES HOLUB

CKULC			tristanholub.com
SKILLS	PROGRAMMING: C#, C++, Python, Java, NodeJS, JavaScript, HTML5, CSS, Bash, OpenGL, GLSL, WPF, PyQt SOFTWARE: Unity 3D, Maya, RenderDoc, Visual Studio, VSCode, Microsoft Office, Photoshop, Illustrator PROJECT MANAGEMENT: Agile/Scrum, Git, Perforce, JIRA		
EDUCATION	DREXEL UNIVERSITY, PHILADELPHIA PA College of Computing and Informatics Bachelor of Science in Computer Science Concentration in Game Programming and Development		JUN 2023 CUMULATIVE GPA: 3.83 Magna Cum Laude
WORK EXPERIENCE	AMAZON ROBOTICS Software Engineer CO-OP	Westborough, MA	MAR 2022 – SEP 2022
	<ul> <li>Streamlined onboarding processes, leveraging automation techniques to enhance accessibility for users.</li> <li>Implemented back-end functionality utilizing AWS to automate the allocation of CIDR resources for new users, significantly reducing reliance on manual assistance during the onboarding phase.</li> <li>Revamped front-end pages with a focus on user-friendliness and aligned them with the automated processes, resulting in improved usability and a seamless experience for customers.</li> <li>Collaborated closely with multiple teams, engaging in comprehensive discussions to understand their vision and requirements, enabling the design and development of solutions.</li> </ul>		
	ANALYTICAL GRAPHICS, INC.	Exton, PA	MAR 2021 – SEP 2021
	-		APR 2020 – SEP 2020
	<ul> <li>3D Graphics - Jr. Programmer/Developer CO-OP</li> <li>Enhanced the capabilities of the STK3D Engine by adding support for multiple glTF model extensions, including EXT_mesh_gpu_instancing (instanced rendering), EXT_meshopt_compression (mesh optimization), and KHR_textures_basisu (texture compression).</li> </ul>		
	<ul> <li>Developed new loaders for the i3dm model format, a payload delivered by 3D Tilesets that describes instanced glTF models.</li> <li>Incorporated KTX2 compression support for Image Based Lighting, resulting in improved performance.</li> <li>Actively contributed to the STK3D Modernization project, focusing on rendering a minimal scene in STK</li> </ul>		
	using a Core OpenGL profile.	ts and upcoming feature additions in multip	
PROJECT EXPERIENCE	<ul><li>and decorations using spline shapes.</li><li>Advised and assisted in the developm for polished level designs.</li></ul>	ammer, Perforce SME el editor tool, enabling game designers to ef This tool significantly improved implement nent of object selection tools that optimized	ation and iteration cycles. the process of set dressing
	<ul> <li>Collaborated with team members to establish the foundational infrastructure of a stateful object system, a crucial component for nearly every player and object interaction in the game.</li> <li>Served as the primary maintainer of the code depot in Perforce, ensuring project stability by managing version control, resolving severe conflicts, and providing technical support to teammates. Additionally, offered expertise and guidance to team members unfamiliar with Perforce.</li> </ul>		
	DONUT DUNKERS: 3D Puzzle Game       Junior Workshop       SEP 2021 – DEC 2         Production Lead, UI Developer       Facilitated cross-disciplinary collaboration by working closely with team members from different disciplines, assigning tasks, setting deadlines, identifying roadblocks, and fostering brainstorming session to overcome challenges effectively.		
	<ul> <li>Collaborated closely with other UI Developers and Designers to create a fluid and user-friendly UI in game.</li> <li>Implemented persistent save data functionality for users in the WebGL build, enabling seamless progress and data retention across gameplay sessions.</li> <li>Conducted playtests and organized survey data into comprehensive reports, providing valuable user feedback to the team for iterative development and enhancement of the project.</li> </ul>		
RELEVANT COURSEWORK	Linear Algebra Computer Game Design & Developmen Web and Mobile App Development	Computer Graphics t Data Structures Fundamentals of Physics I, II, II	I
HONORS AND AWARDS	Differential Equations DEAN'S SCHOLARSHIP, Drexel University DEAN'S LIST, Drexel University	Game AI Development	2018 – 2023 2018 – 2023
ACTIVITIES	LEAGUE OF LEGENDS E-SPORTS COMPETITO ENTRPRENEURIAL GAME STUDIO, Drexel U MATHEMATICS & COMPUTER SCIENCE SOC	Iniversity	2021 – 2023 2019 – 2023 2018 – 2023