CHARLES WANG

University of Pennsylvania, Engineering and Applied Science

B.S.E. Digital Media Design, 2018

M.S.E. Computer Graphics & Game Technology, 2018

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PROFESSIONAL SKILLS

3D Software	Languages	Creative Skills	Technical Skills			
Maya, Zbrush, Houdini Unity, Unreal Engine Arnold, Redshift Substance Painter	C, C++, C# Python, GLSL Java, Javascript HTML, CSS	3D Modeling Lighting/Lookdev Rigging/Animation Motion Graphics Game Design	Virtual Reality Rendering GPU Programming Procedural Graphics Game Development	Pipeline Tools Git/Version Control Rez Packaging		
WORK EXPERIENCE						
Assistant Technical Dir	ector Method	Method Studios New York, NY				
July 2018 - Present	* Facilitat	* Design and implement artist-facing CG tools to improve workflow efficiency * Facilitate and support visual effects pipeline for commercial and feature work * Support proprietary tools for: color management, lens distortion, footage ingestion				
Teaching Assistant	Universi	ity of Pennsylvania Pl	niladelphia, PA			
Jan 2015 - May 2017	* FNAR36 * CIS460/	 * CIS461/561 (Advanced Rendering) Spring 2017 * FNAR366 (Advanced Computer Modeling) Spring 2017 * CIS460/560 (Interactive Computer Graphics) - Spring 2016, Fall 2016 * FNAR235 (3D Computer Modeling) - Fall 2016, Spring 2017 				
Programming and	BioStrea	BioStream Technologies Philadelphia, PA				
Game Design Intern		* Supporting project developing video game therapies for autism * Designed algorithm using performance to scale level difficulty (C#)				
May 2016 - Aug 2016	* Designe	ed algorithm using perforn	nance to scale level difficul	difficulty (C#)		
Research Assistant	CG@Per	nn - University of Penns	ylvania Philadelphia,	PA		
		accurately scaled model of Reading Terminal Market in Unity/Maya ented a heatmapping system with interactive heat sources				

RECENT PROJECTS

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Senior Design Project

3D web puzzle game where puzzles are procedurally generated Applied Skills: Javascript, 3js, WebGL

OBSCURA

3D Puzzle/Adventure Game

1st Place Overall Winner at Penn Play Game Jam Spring 2016 Contribution: Level Design, Modeling, Texturing, Lighting

Our team later adapted Obscura as a third-person puzzler in Unreal Engine

Monte-Carlo Pathtracer

Multiple Importance Sampling, Depth of Field, BVH Acceleration Later developed a GPU version with BVH acceleration Applied Skills: C++, OpenGL, CUDA, QT Creator