JONATHAN LEE

Programmer - Filmmaker

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EDUCATION

University of Pennsylvania (Philadelphia, PA)

MSE Computer Graphics and Game Technology August 2016 — May 2018 (anticipated)

Rutgers University (New Brunswick, NJ)

BS Computer Science August 2012 — January 2016

- Penn SIGGRAPH Member
- Previous Courses: Intro to Computer Graphics, Computer Animation, 3D Modelling
- Dean's List (Fall 2012, Fall 2014, Spring 2015, Fall 2015)
- National Society of Collegiate Scholars, Undergraduate Society of Computer Scientists, Rutgers Animation Club, Intramural Basketball Captain (2012-2015)

SKILLS

Programming Languages	C++, Python, Java	Interests	AnimationFilm/VFX/PhotographyGraphic DesignPhysically Based
Design Software	Maya, Photoshop, Illustrator, Premiere, After Effects	Current Courses	
Web Technologies	HTML/CSS, Flask, JSP, MySQL, WordPress		Animation • Advanced Topics in Computer Graphics

RECENT PROJECTS

Mini-Minecraft - C++	 Implemented physics and terrain interaction (gravity, collision detection/interaction, raymarching for creating/destroying blocks) Allows first person, third person, and sandbox camera modes Implemented steering behaviors and animated a dance sequence for NPC cows and birds
Mini Maya - C++	 Parses OBJ files and draws onto the screen utilizing a half-edge mesh data structure Successfully subdivides meshes through Catmull-Clark subdivision Parses JSON files to allow rigging and skinning of skeletons onto the mesh Allows users to change weight influence on different joints
SteerLite Crowd Simulator - C++	 Fully functional crowd simulator that implemented A*, Social Forces, and GJK Collision Detection. Implemented concave polygon collision detection through Successfully achieved low scoring benchmarks on about 15 test cases
RU Studying — Python	 Finds empty classrooms during school hours for students to study in Parses JSON data provided by the Rutgers API

WORK EXPERIENCE

Walt Disney World Resort —

Quick Service Food & Beverage Cast Member

Disney College Program Participant

Disney College Program Participant January 2016 — July 2016 (Orlando, FL)

Today's Business —

Digital Developer Intern
May 2015 — August 2015 (Pine Brook, NJ)

- · Performed excellent service and interaction to guests daily
- Maintained a well-stocked and "show" ready location
- Worked in a multifaceted team that served thousands of guests each day
- Successfully completed a course in Disney Leadership
- Demonstrated the Four Keys on multiple occasions
- Maintained various web pages for different clients with WordPress
- Designed landing and Facebook pages for clients with Instapage and FalconSocial
- Generated SEO reports with Google Analytics