Crystal Lee

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Education

University of Pennsylvania, School of Engineering and Applied Science Philadelphia, PA BSE in Digital Media Design, Dept. of Computer and Information Science, May 2019

Relevant Coursework

Graphics: Physically Based Animation*, Computer Animation*, Interactive Computer Graphics; Advanced Computer Graphics; 3D Modeling; Data Visualization, Art, Design, and Digital Culture **Software:** Software Design/Engineering; Automata, Computability, and Complexity; Introduction to Algorithms; Programming Languages and Techniques I & II

* = currently enrolled in

Skills

Programming Languages: C++, OpenGL, Java, HTML, CSS, Javascript, JQuery, Bootstrap, OCaml, Swift **Graphics:** Adobe Creative Suite (Photoshop, Illustrator, InDesign), Autodesk Maya, Google Sketchup **Languages:** English, Korean, basic Spanish

Work Experience

Walt Disney Animation Studios – Los Angeles, CA; Software Engineering Intern Summer 2018

- · Worked in the Production Technology department at Walt Disney Animation Studios as a summer intern.
- · Developed for Meander, the most popular drawing engine for applications across the Disney Studios.
- · Explored tile-based rendering and the support for Apple's Metal renderer.

SIG Center for Graphics – Philadelphia, PA; Research Assistant

Summer 2017

· Conducted research under Dr. Norman Badler and the Penn Arts Council Grant (see Projects for details).

Projects

3D Visualization Research Project (Penn Arts Council Grant)

Summer 2017

- · Collaborated with Matterport Scans to acquire 3D scanned models of the Penn Museum's Native American exhibit and the SIG center for Graphics.
- · Used HTML, Javascript and CSS to connect them, add labels, and hide specific sections for security or aesthetic reasons.
- · Worked under Dr. Norman Badler.

UPenn Transplant Rehabilitation App

Spring 2017

- Developed a web application to rehabilitate patients after liver, lung, or kidney transplants, which will soon be used by real medical practitioners at the Hospital of the University of Pennsylvania. Communicated with a client to determine what features were needed, and presented deliverables in two-week iterations.
- · Worked with two team members over the course of eight weeks using Javascript, HTML, and CSS.
- · Gained experience with both frontend and backend database management.

Monte Carlo Path Tracer

Spring 2017

· Created a Monte Carlo Path Tracer renderer using C++ and OpenGL. Worked alone over the span of 7 weeks, with a deliverable due each week.

Mini Minecraft Fall 2016

·Replicated the video game "Minecraft" over three weeks using C++ and OpenGL with two team members.

PennApps XIII Spring 2016

· Created a game application using Swift with two other team members.

Activities

Korean Student Association, Member Women in Computer Science, Member Fall 2015 – Present Fall 2015 – Present