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Education _

University of California, Berkeley

Berkeley, CA

BACHELOR'S IN COMPUTER SCIENCE

August 2014 - PRESENT

- Relevant courses: Computer Graphics, Algorithms, Machine Learning, Image Manipulation & Computational Photography, Artificial Intelligence, Ruby on Rails, Database Systems, 3D Modeling & Animation, Data Structures, Linear Algebra
- GPA: 3.84 (some form of A in all of the above courses)

Experience

Robot Learning Lab (Prof. Pieter Abbeel)

Berkeley, CA

Undergraduate Researcher

June 2016 - PRESENT

- Developed a system for autonomous, task-based robot motion by means of a neural network trained on VR demonstrations.
- · Worked on the interface for robot teleoperation using virtual reality controls, while also tuning the model architecture for best results.

UC Berkeley EECS Department

Berkeley, CA

UNDERGRADUATE STUDENT INSTRUCTOR

August 2015 - PRESENT

- Served as a teaching assistant for CS 61A, the introductory programming paradigms class at Berkeley (~1600 students in Fall 2016).
- · Worked with professors and other TAs to create course content such as exams and section worksheets.
- · Led weekly discussions, labs, and office hours.

ASUC Office of the CTO

Berkeley, CA

BACKEND ENGINEER

October 2015 - December 2015

 Helped restructure the database, performed load testing, and contributed to general backend bug fixes as part of the Berkeleytime team (www.berkeleytime.com).

Highlighted Projects

Automatic Image Stitching | Python

November 2016

- Automatically and seamlessly stitches images together using Harris corner detection, feature descriptor matching with SSD, RANSAC, and homography calculation for warping.
- Also allows for the rectification of image features and the creation of 360° cylindrical panoramas.

Single View Modeling | Python

December 2016

- PyOpenGL realization of the "tour into the picture" algorithm, complete with a GUI for selecting points and walking through scenes.
- In its current incarnation, the program is able to take in a one-point perspective image and reconstruct a 3D model of its content.

Lens Simulator | C++

March 2016 - April 2016

- · Path tracing, where rays are refracted according to an input lens model. Supports contrast-based autofocus.
- At its core: a physically-based renderer built upon a large number of ray intersection tests, acceleration using a BVH, Russian roulette
 methods for secondary ray termination, and reflection/refraction computation for different materials.

The Rap App | HTML, CSS, JavaScript

October 2015

- Provides an interactive, online platform for computer-aided freestyle.
- Listens to what a person says, and at breaks in the flow displays a rhyme for the last word spoken.

Skills

PROGRAMMING LANGUAGES AND FRAMEWORKS

Python, **Java**, **C++**, OpenGL, JavaScript, HTML, CSS, C, SQL, ROS, C#, Unity, Android, Ruby, Ruby on Rails, Django, Scheme, Scala, MIPS assembly, Bash

SOFTWARE

Adobe Photoshop, Adobe Animate CC, Autodesk Maya