

EDUCATION

UNIVERSITY OF CALIFORNIA, BERKELEY

Expected: Fall 2019

Computer Science, B.A.

- > CS 186 / Databases*
- > CS 184 / Computer Graphics*
- > CS 161 / Computer Security*
- > CS 194 / Computer Vision
- > CS 170 / Algorithms
- > CS 100 / Data Science
- > CS 61C / Computer Architecture
- > CS 61B / Data Structures
- > Math 110 / Linear Algebra
- > CS 70 / Discrete Mathematics & Probability Theory

* Spring 2019

EXPERIENCE

FOX NETWORKS

Summer 2018

Software Engineering Intern

- > Deployed a cloud-based analysis tool to perform 24/7 live stream monitoring across 200+ TV stations. **[Node.js, SQL, AWS]**
- > Prototyped an image detection feature for HLS live streams using GStreamer, AWS Rekognition, and DeepLens. **[C, Python, AWS]**

PROJECTS

COLORIZER

Spring 2019

- > Architect a data visualization platform that classifies an entire artist's discography into specific colors based on user input. **[Node.js, React]**
- > Create an audio visualizer based on certain audio features derived from Spotify's Web API. **[Three.js, Node.js]**
- > Implement simplex noise for vertex and fragment shaders. **[C++, GLSL]**

IMAGE WARPING

Fall 2018

- > Constructed both manual and automatic methods to stitch a mosaic from a series of images with corresponding points. **[Python, OpenCV]**
- > Implemented an algorithm to automatically detect common features in images with the Harris Interest Point Detector, Adaptive Non-Maximal Suppression, rotational invariant features, and RANSAC.
- > Designed a morphing algorithm that warps Delaunay triangulations and cross-dissolves colors from a series of images to seamlessly morph one object into another.

AUDIOCRAWLER

Spring 2017

- > Investigated deep learning and music genres during LAHacks 2017 with a group of four. **[Python, Keras, Librosa]**
- > Processed a music database of 10,000 songs, then used audio spectrograms in order to classify music genres.
- > Predicted music genres based on user input with a long short-term memory (LSTM) neural network.

SKILLS

- > LANGUAGES: Java, C, C++, Python, JavaScript, HTML, CSS, Go, SQL
- > TECHNOLOGIES: Node.js, React, Spark, Pandas, AWS, Keras