

EDUCATION

UNIVERSITY OF CALIFORNIA, BERKELEY

Expected: Spring 2020

Computer Science, B.A.

- > CS 162 / Operating Systems*
- > 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

* Spring 2020

EXPERIENCE

AKAMAI

Summer 2019

Software Engineering Intern

- > Construct a real-time chat system for security specialists to communicate more efficiently during DDoS mitigation. **[Scala]**
- > Research and redesign an entire user interface and experience for a security operations application. **[Node.js, React, Redux, Electron]**

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

Summer 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.

SKILLS

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