Alan Nguyen

http://alandn.io | **in** alandn | ⊙ stylate

nguyenalan@berkeley.edu

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EDUCATION

UNIVERSITY OF CALIFORNIA, BERKELEY
Computer Science, B.A.

Expected: Fall 2019

> 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

* Fall 2019

EXPERIENCE

AKAMAI
Software Engineering Intern

Summer 2019

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

FOX NETWORKS
Software Engineering Intern

Summer 2018

> 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