Alan Nguyen

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EDUCATION

UNIVERSITY OF CALIFORNIA, BERKELEY
Expected: Fall 2019

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

* Fall 2019

EXPERIENCE

AKAMAI
Summer 2019

Software Engineering Intern

> Construct a real-time monitoring system for security specialists to communicate more efficiently during DDoS mitigation. **[Scala, MySQL, Redis]**
> Research and redesign an entire UI/UX 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 MPEG-DASH and HLS live streams using GStreamer, AWS Rekognition, and DeepLens. **[C, Python, AWS]**

PROJECTS

> **Pathtracer:** Physically-based renderer that generates images based on 3D COLLADA models and a pathtracing algorithm. **[C++]**
> **Image Warping:** Application that uses a series of images to computationally construct mosaics, as well as create a morphing sequence from one image to another. **[Python, OpenCV]**
> **Colorizer:** Data visualization platform that classifies an entire artist's discography into specific colors based on user input using Spotify's API. **[Node.js, React, Three.js]**
> **AudioCrawler:** LSTM classifier that reliably identifies music genres based on audio spectrograms. **[Python, Keras]**

SKILLS

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