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

- Created frontend features for security specialists to optimize workflow for DDoS mitigation. **[React, Redux, Electron]**
- Architected a database with CRUD endpoints to further organize both customer and internal data. **[Scala, MySQL]**
- Designed a RESTful search API for Akamai tools used to assess customer data. **[Node.js, React, Redux]**
- Implemented a real-time monitoring system for more efficient communication amongst security specialists. **[Node.js]**

FOX NETWORKS

Summer 2018

Software Engineering Intern

- Deployed a cloud-based analysis tool to perform 24/7 real-time monitoring across 200+ TV stations, networks, and live streams. **[Node.js, AWS]**
- Constructed a data pipeline in order to visualize data analytics and improve consistency. **[Node.js, Splunk]**
- 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++]**
- **File Storage:** End-to-end encrypted file sharing and storage system utilizing Google UUID. **[Go]**
- **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]**

** Clickable link provided*

SKILLS

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