

Alan Nguyen

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EDUCATION

University of California, Berkeley

06/17 - 12/19

Computer Science, B.A.

- > **Relevant Coursework:** Operating Systems, Databases, Computer Graphics, Computer Security, Computer Vision, Algorithms, Data Science, Computer Architecture, Data Structures, Linear Algebra
- > **Programming Languages:** Python, C/C++, Golang, Java, JavaScript, HTML/CSS
- > **Tools/Technologies:** Docker, Git, React.js, Redux, Node.js, SQL
- > **Relevant Knowledge:** Web Applications, UI/UX, API Design, Machine Learning

WORK EXPERIENCE

Akamai | Fort Lauderdale, FL

05/19 - 08/19

Software Engineer Intern

- > Deployed a desktop application for 200+ security specialists worldwide to optimize workflow for handling security threats. **[React, Redux, Electron]**
- > Designed a real-time monitoring and chat system with web sockets. **[Node.js]**
- > Engineered core backend features used to assess customer data. **[Node.js, Scala, Postgres]**

Fox Networks | Los Angeles, CA

06/18 - 08/18

Software Engineer Intern

- > Developed a cloud-based analysis tool to perform 24/7 real-time monitoring across 200+ TV stations 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. **[C, Python, AWS]**

PROJECTS

> Spectra — alandn.io/spectra

- Scalable web application that stores user info and generated art styles. **[React, Redux, GraphQL, Django]**
- Implementation of the [neural style transfer](#) algorithm with generative adversarial networks (GANs). **[Python, PyTorch]**

> Pathfinder [C++] — alandn.io/pathtracer

Physically-based renderer that generates images based on 3D COLLADA models and a pathtracing algorithm.

> ClothSim [C++, GLSL] — alandn.io/clothsim

Real-time simulation of cloth using a mass and spring based system.

> Visualizer [React, Three.js, GLSL] — alandn.io/hex

Web application that generates a 3D interactive model based on audio data queried from SoundCloud API.

> Mosaic Builder [Python, OpenCV] — alandn.io/mosaic-builder

Application that uses a series of images to computationally construct mosaics using the Multi-Scale Oriented Patches (MOPS) algorithm.