Alan Nguyen

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<redacted>

EDUCATION

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

2017 - 2019
GPA: 3.4/4.0

> CS 100 / Data Science*
> CS 170 / Efficient Algorithms & Intractable Problems*
> CS 61C / Machine Structures*
> CS 61B / Data Structures

> CS 61A / Structure & Interpretation of Computer Programs
> Math 110 / Linear Algebra
> CS 70 / Discrete Mathematics & Probability Theory

Spring 2018

EXPERIENCE

ACADEMIC INTERN
University of California, Berkeley | EECS

Spring 2018 - Present

> Assisting approximately 1400 students with CS61B, the premier data structures course at UC Berkeley.
> Providing feedback and solving technical problems regarding class material.
> Mentoring students in office hours and labs regarding concepts, homework, classwork, and projects.
> Writing guides to assignments and projects for easier student comprehension.

PROJECTS

MICROML

Spring 2018

> Designed a memoization service for machine learning models in Go.
> Translated hand-written images from the MNIST dataset using support vector machines (SVMs).
> Implemented memoization using a key-value cache service in order to speed up classification for past images.

GITLET

Fall 2017

> Constructed a variation of git from scratch in Java.
> Designed a wide variety of git commands, not limited to: pull, push, checkout, fetch, commit. Also expanded these commands for compatibility with remote repositories.
> Serialized and deserialized commits and blobs as an efficient data structure for file storage.
> Implemented SHA-1 hashing in order to identify unique commits and blobs.

AUDIOCRAWLER

Spring 2017

> Investigated deep learning and music genres during LAHacks 2017 with a group of four. Used Python, Keras, and Librosa.
> Processed a music database of 10,000 songs, then used audio spectrograms in order to classify music genres.
> Predicted music genres based on user input with a long short-term memory (LSTM) neural network.

SKILLS

> EXPERT: Java, C/C++, Python, Git
> PROFICIENT: React, HTML/CSS, JavaScript, SQL, Go
> PRIOR EXPERIENCE: TensorFlow, Keras, Spark, Pandas, Scikit-learn