Alan Nguyen

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https://stylate.github.io

408-717-2010

EDUCATION

UNIVERSITY OF CALIFORNIA, BERKELEY
2017 - 2019

Intended B.A. in Applied Mathematics, Computer Science

> CS170 / Efficient Algorithms & Intractable Problems*
> CS188 / Artificial Intelligence*
> CS61C / Machine Structures*
> CS61B / Data Structures

> CS61A / Structure & Interpretation of Computer Programs
> Math 110 / Linear Algebra
> CS70 / Discrete Mathematics & Probability Theory

Spring 2018

DE ANZA COLLEGE
2015 - 2017

GPA: 3.79/4.0

Mathematics & Computer Science

> CIS 22C / Data Abstraction & Structures
> MATH 1D / Multivariable Calculus
> MATH 2A / Differential Equations

> MATH 2B / Linear Algebra

> MATH 10 / Elementary Statistics

PROJECTS

DEEPFRANK
Fall 2017 - Present

> Independently study machine learning and natural language processing with Python and TensorFlow.
> Create an algorithm that learns how to generate new lyrics based on the music artist Frank Ocean using a Sequence-to-Sequence LSTM neural network.

DATABASES
Fall 2017

> Independently designed a scaled-down version of a relational database management system.
> Constructed a restricted dialect of SQL in Java in order to communicate with the database consisting of a sample of UC Berkeley student data.
> Organized student data using HashMaps and ArrayLists

AUDIOCRAWLER
Spring 2017

> Investigated deep learning and music genres during LAHacks 2017 with a group of four. Used Python, TensorFlow, 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 LSTM neural network.

VACATIONPLANNER
Winter 2017

> Worked on a team project that demonstrated knowledge of data structures and abstraction. Coded in C++.
> Implemented user and file I/O, overall design, as well as data structures, such as hash tables, binary search trees, and stacks.

SKILLS

> LANGUAGES: C++, Java, Python, HTML, CSS, LaTeX
> TOOLS: Git, TensorFlow, Keras