Christine Nguyen

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EDUCATION

University of California, Berkeley | Berkeley, CA Expected Graduation May 2022

Bachelor of Arts in Data Science (Emphasis: Applied Math and Modeling), Minor in Computer Science *Cumulative GPA: 3.49*

- Coursework: Principles and Techniques of Data Science, Probability and Mathematical Statistics in Data Science, Structure and Interpretation of Computer Programs, Data Structures, Linear Algebra and Differential Equations, Web Development, Economics

SKILLS & TECHNICAL TOOLS

- Python, Java, Pandas, SQL/SQLite, Pandas, sklearn, HTML/CSS, regex, Matplotlib, Plotly, Jupyter Notebook

PROJECTS

Gitlet | *Java* 2020

- Implemented a version-control system that mimics basic features of the popular system Git.
- Designed a set of classes to represent the internal structures during execution and a parallel representation as files to ensure the persistence of the program.

Engima | *Java* 2020

- Utilized test-driven development techniques to replicate the WWII German encryption Enigma machine by building a generalized simulator that takes in descriptions of possible initial configurations of the machine and individual rotor settings to encode and decode messages.
- Used HashMaps, ArrayLists, and Java's Scanner and String classes to handle string manipulation, data mapping, and file reading.

Spam/Ham Classifier | *Python, Pandas, sklearn* 2020

- Created a pipeline to process the data and built a logistic regression model to predict whether an email was spam or ham.
- Received a 94% training accuracy on the test set.

Analyzing Trump's Tweets | *Python, Pandas* 2020

- Utilized Twitter API to extract Trump's tweets into a Pandas Data Frame and cleaned the data using Pandas and regex.
- Used the VADER lexicon to analyze the sentiment of Trump's tweets and used Matplotlib to create plots showing the distribution of tweet sentiments for interesting word pairs.

EXPERIENCE

theCoderSchool | Code Coach January 2020 – Present

- Teach students the fundamentals of programming, problem solving, and algorithm design by using a project-based approach to guide students through building their own applications using Scratch, Python, HTML/CSS.
- Manage 15 students and develop personalized curriculum to cater to the student's learning goals and skill level.

University of California, Irvine | Undergraduate Student Researcher June 2019 – August 2019

- Collected data from 20+ balance sheets to create a time series for each firm over the period of 20 years.
- Engineered a data pipeline in order to clean and process the multiple time series into a panel dataset in STATA.
- Performed exploratory data analysis in Jupyter Notebook and created interactive graphs using Plotly to analyze how firms' financial compositions and financial strategies affected firm performance during the Great Depression.

UC Berkeley College of Engineering | CS10 Academic Intern August 2019 – December 2019

- Provide academic support to 30+ students for in a weekly lab section through explaining concepts (concurrency, recursion, higher order functions, algorithmic complexity), guiding debugging processes, and clarifying project questions.

INTERESTS

- Cooking, Strategic Board Games, Classical Music, Morse Code, Violin, Swimming, Digital Art, Grey's Anatomy