









EDUCATION

University of California, Berkeley (Triple Major)

B.A Statistics | 4.00

B.A Computer Science | 4.00 B.A Economics | 3.86

May 2022 CS61C: Computer Architecture Teacher Assistant **CS 70:** Algorithms and Probability Tutor (Private) Stat 135: Concepts of Statistics Teacher Assistant

Coursework:

Computer Architecture, Neural Networks, Concepts of Statistics, Financial Economics, Computer Security, Advanced Probability, Stochastic Processes, Efficient Algorithms and Intractable Programs,

EXPERIENCE

Plaid | Software Engineer

New York City, NY | May 2022 - Present

- Worked in React and goLang to build and maintain a new user dashboard for end users to consume Plaid products
- Fine tuned OpenAI LLM's for a universal search engine, and analyzed user action/traffic for UX/UI improvements

Citadel Securities | Systematic Intern

Chicago, IL | May 2021 - Aug 2021

- Designed and built pipelines for the Fixed Income and Equities desk, working primarily in Python and Linux
- Used survival analysis and regression models to systematically solve a variety of non trivial problems (N.D.A)

Microsoft | Applied Statistics and Data Science Intern

May 2020 - Aug 2020

- Developed and deployed NLP models, as a part of the WorldWide Learning Team, utilzing Azure ML Studio and Docker
- Helped to build a pipeline to train and ingest an ensemble of NLP models aimed at Entity Extraction

Escape-It | Founder

San Ramon, CA | April 2020 - Prersent

- Designed, built, and marketed personalized virtual escape rooms to student clubs, companies, and organizations globally
- Reached a total of nearly 100,000 users, with secured contracts up to \$1500, including clubs at NYU, UBC, Berkeley
- Stack Includes: React, Express, MongoDB, Redux, React-Router, inside of a Node-JS application

HilightAi | Software Engineering Intern

San Jose, CA | Aug 2019 - Jan 2020

- Improved Convolutional Neural Networks developed in MXNet to increase accuracy of tracking sports players throughout games
- Designed new hardware methods to further improve tracking of dynamic players and reduce obfuscations

CyberCube | Software Engineering Intern

San Francisco, CA | May 2019 - Aug 2019

- Implemented an affinity propagation algorithm to reduce database redundancies and increasing API call efficiency
- Deployed pipeline on an Amazon EMR cluster, utilizing PySpark to peform cleanup in feasible timeframe
- Explored other techniques, including fuzzy logic and NLP, and performed cost and accuracy analysis

RESEARCH

Haas School of Business

Jan 2021 - Present

Performed before and after analysis on the presence of wealth and influence of politics on the landed and financial wealth

U.C Berkeley Economics Department

May 2020 - Present

- Scraped historical online census records to understand social mobility on welfare recipients and long term familial impact
- Geocoded addresses and analyzed impact of political influential neighbors on the probability of government employment

Naval Postgraduate School

Jun 2017 - Mar 2018

- Analyzed synthetic terrorist networks to glean insights about key players and connectivity across the graph
- Utilized Python and Gephi to analze approximately 1,000,000 connection across 3 thousand nodes

PROJECTS

Stock Market Analysis

April 2019 - Present

- Created a Recurrent Neural Network, combined with a pre-trained ELECTRA NLP model to predict momentum based movements in the stock market based on news
- Trained on limited data, but working on adversial training to increase the efficacy of the training sets and increase robustness

Spotify Analysis

Dec 2018 - Present

- Developed various models, including Random Forest Classifier, Simple Neural Network, and Multilabel Linear Regression, to continuously train and sort a user's Spotify Song library into playlists
- Ingested model endpoint deployed on Azure ML Studio into a Flask Application, with a simple React front-end

SKILLS

Python (Scikit-learn, PyTorch, Pandas, MatPlotLib, SQLAlchemy), Javascript (React, Express, Socket), Scala, Technical HTML/CSS, SQL, C, C+, AWS (Sagemaker, ERM, EC2, Glue), Azure (ML Studio, Virtual Machines)

Other Cooking, Obstacle Courses, Video Editing, Avid Playlist Creator, Puzzle Enthusiast, Spikeball