

Adam Ash

adamash@berkeley.edu | 818.825.0806 | github.com/adamash99 | https://adam-ash.herokuapp.com

Education

University of California Berkeley - Cumulative GPA: 3.72, Major GPA: 3.86

Berkeley, CA

- BS, Electrical Engineering & Computer Science, College of Engineering
- Relevant Coursework: Databases, Operating Systems, Algorithms, Data Structures, Computer Architecture, Data Science, Discrete Mathematics, Probability Theory, Artificial Intelligence, Machine Learning, Neural Networks, Convex Optimization

Graduated May 2020

Professional and Research Experience

English Teacher and Private Stem Tutor

Tel Aviv, Israel

Mishor HaNof School and local families

August 2021 – Present

- Designed and taught custom sessions for clients in subjects including computer science, critical thinking, and math
- Created and executed introductory English lesson plans in classes for students with learning disabilities in a local public school

Sports Betting Innovative Analytics

Remote

Software Engineer - Artificial Intelligence

January 2021 – May 2021

- Designed and built neural network models to predict at-bat outcomes to be used in Markov chain based baseball game predictions
- Created TensorBoard visualization dashboard for above neural networks to bolster understanding of sensitivities and outliers
- Queried noSQL databases to extract existing data and create transformation pipelines adding new predictive features to games

UC Berkeley Multimedia Research Group

Berkeley, CA

Undergraduate Researcher – MediaEval Project

November 2020 – May 2021

- Researched related work and designed a deep learning classifier to predict if a Covid-19 and 5G related Tweet is fake news or not
- Given a graph of each Tweet's distribution, computed features using the Graph2Vec and DeepWalk algorithms
- Compiled findings into a paper presented at the MediaEval 2020 Conference, and received the second best score of 14 entries

DoNotPay

San Francisco, CA

Software Engineering Intern - Artificial Intelligence

Summer 2020

- Built and shipped an internal database management tool for non-engineers on the team using Apollo, React, and GraphQL
- Created interactive visualization tools showing company progress over time in selected metrics such as user outreach
- Designed and engineered an interactive model estimating the likelihood of users subscribing based on their previous actions
- Architected an efficient pipeline using MongoDB and Python to automatically query, clean, and analyze user data

UC Berkeley Mobile App

Berkeley, CA

iOS Developer

February 2020 – June 2020

- Worked with three other students to develop, maintain, and debug the UC Berkeley Campus Information iOS app
- Created interactive views enabling users to see library schedules and space availability, and book study rooms
- Modified the team-wide campus landmark data storage system to access information from Firebase more efficiently

Berkeley Renewable and Appropriate Energy Lab

Berkeley, CA

Data Science Intern

September 2018 – May 2019

- Led a data analysis team of five students to develop an interactive energy usage model of the entire country
- Collected, cleaned, and analyzed data to find correlations between selected social demographics and carbon emissions
- Used RStudio, matrix math, and econometric methods to implement linear regressions and visual models of data

Projects

MAD Donations

August 2020

- Created a non-profit monthly subscription service that matches users with charities that work in the causes that users support
- Designed the user sign up flow of creating an account, selecting causes to support, and choosing monthly donation amounts
- Orchestrated and implemented MongoDB schemas on the backend server using Flask MongoEngine

Pokedex iOS Application

September 2020

- Used Xcode to create an iOS application in which the user is able to view Pokemon by grid or list as well as search by attribute
- Designed a data storage system enabling the user to store Pokemon as favorites that persist after the app is closed and reopened

Other

Languages: Web (React, JavaScript, TypeScript, HTML, CSS), Mobile (Swift, Xcode), Backend (Python, Flask, Java, Go, C)

Technologies: Database (SQL, MongoDB, Firebase), Machine Learning (TensorFlow, TensorBoard, PyTorch)

Affiliations: Alpha Epsilon Pi, UC Berkeley ASUC OCTO, Engineers for a Sustainable World, National Merit Scholar Finalist