

💌 edwardcen@berkeley.edu | 🎁 www.edwardcen.github.io | 🖸 github.com/edwardcen | 🛅 linkedin.com/in/edwardcen

Education

University of California, Berkeley

Berkeley, California

B.S.E IN ELECTRICAL ENGINEERING AND COMPUTER SCIENCE

May 2021

- Relevant Coursework: Data Structures and Algorithms, Linear Algebra, Data Science
- · GPA: 4.0, Dean's High Honors List, Kraft Award

Bellaire High School Houston, Texas

HIGH HONORS MAGNET DIPLOMA May 2017

Valedictorian – Rank 1 out of 765 students, SAT: 2370, GPA: 4.0, National Merit Scholar, Congressional Award Gold Medal

Technical Experience.

Two Sigma Investments Houston TX

INCOMING SOFTWARE ENGINEERING INTERN

Starting May 2018

Berkelev, CA Nommery **DATA ANALYTICS INTERN** Sep. 2017 - Dec. 2017

· Segmented Nommery's users by motivations and interests and discovered meaningful correlations using Pandas and Jupyter Notebook

- · Combined US Census data and OpenTable API to directly target audiences based on location and demographics
- Summarized research and generated data visualizations using Seaborn about user base clusters for marketing

Projects.

Halite II AI Challenge

- Designed heuristic-based resource allocation algorithms to ensure a distribution of ships which minimized threats and maximized mining potential
- Implemented efficient algorithm for multi-agent pathfinding to avoid collisions which reduced pathfinding runtime by over 50%
- Top 5% of all competitiors, 1st Place Winner at Berkeley Halite Hackathon

Stock Prices Web Scraper

- · Used an read_eval_print loop and string manipulation to continuously read in user input about stocks and data points of interest
- · Pulled real-time data from Yahoo Finance API using standard Python requests library and parsed into csv format to display in Pandas dataframe

Food Atlas Data Analysis

- Visualized demographics, food access, and income data of over 3000 counties with obesity rate using python libraries to quickly discover key factors
- · Developed linear regression model for obesity which outperformed default methods by 10% and quantified the weight and direction of factors

- Implemented OOP paradigms for game logic elements and used Tkinter to design GUI with in-game menus and click-based input
- · Designed AI using minimax algorithm with pruning after every additional depth in gametree

Leadership Experience

Data Science Society at Berkeley

Berkeley, CA

ANALYTICS COMMITTEE MEMBER

Sep. 2017 - Present

- · Helped teach and promote knowledge of data science through workshops on common industry technologies such as Git, SQL
- Participated in data science projects for company consulting such as Nommery

Youth Service Council Southwest Texas

Aug. 2015 - Jun. 2017

Youth Service Council helps govern South Texas region high school and college Red Cross clubs

Arranged the Leadership Development Conference which helped over 200 members from across Texas socialize and develop leadership skills

Honors & Awards _

VICE CHAIR

US Physics Team, Gold Medal on US Physics Olympiad High Honors, Top 50 on US National Chemistry Olympiad Jun. 2017

May 2016

Skills & Interests

Languages-Python (Proficient), Java (Proficient), C++ (Familiar), SQL (Familiar), JavaScript (Familiar), HTML5/CSS3 (Familiar)

Tools & Packages-Bash, LaTeX, Git, Jupyter Notebook, NumPy, Pandas, Scikit-Learn, React.js, Node.js & Express.js

Professional Interests Data Science, Machine Learning, Cryptocurrency, Scientifc Programming