Edward **Cen**

✉ edwardcen@berkeley.edu | ⬡ github.com/edwardcen | in linkedin.com/in/edwardcen

Education

University of California, Berkeley   *Berkeley, California*
B.S.E IN ELECTRICAL ENGINEERING AND COMPUTER SCIENCE   *Expected Graduation: May 2021*
- Relevant Coursework: The Structure and Interpretation of Computer Programs, Designing Information Devices and Systems I, Data Science

Bellaire High School   *Houston, Texas*
HIGH HONORS MAGNET DIPLOMA   *May 2017*
- Valedictorian – Rank 1 out of 765 students, SAT: 2370

Technical Experience

Nommery   *Berkeley, CA*
DATA ANALYTICS CONSULTANT   *Sep. 2017 – Present*
- Segmented Nommery's users by motivations and interests and discovered meaningful correlations using Pandas and Jupyter Notebook
- Summarized research and generated data visualizations using Seaborn about user base clusters for marketing

Rice University   *Houston, TX*
ELECTRICAL ENGINEERING RESEARCH INTERN   *Jun. 2016 - Aug. 2016*
- Conducted independent research on organic photovoltaics and devised new device fabrication procedures using Gallium-Indium as electrode
- Researched effects of additives to PEDOT:PSS on resulting cell power conversion efficiency
- Designed Excel spreadsheet algorithm for efficient interpretation of solar simulator data

Projects

3D Tic Tac Toe
- 3D Tic Tac Toe is a turn-based game to connect 4 collinear points on a 4x4x4 space
- 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

Kaggle - RMS Titanic Challenge
- The Titanic Challenge uses data science and machine learning techniques to calculate the chances of survival for those on board
- Used Jupyter Notebook, matplotlib, and seaborn for data visualization to more easily see correlations and help with missing value imputation
- Designed algorithms to convert categorical data to numeric and generated random decision forests and other training techniques using Scikit- Learn

Extracurricular Activity

Youth Service Council   *Southwest Texas*
VICE CHAIR   *Aug. 2015 - Jun. 2017*
- Youth Service Council helps govern South Texas region high school and college Red Cross clubs
- Faciliated communication between the Red Cross staff and youth volunteers through social media
- Arranged the Leadership Development Conference which helped over 200 members from across Texas socialize and develop leadership skills

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

Honors & Awards

US Physics Team, Gold Medal on US Physics Olympiad   *Jun. 2017*
High Honors, Top 50 on US National Chemistry Olympiad   *May 2016*

Skills & Interests

Languages- Python (Highly Skilled), Java (Highly Skilled), C++ (Proficient), SQL (Proficient), JavaScript (Proficient)
Tools & Packages- Bash, LaTeX, Git, Jupyter Notebook, NumPy, Pandas, Scikit-Learn
Professional Interests Data Science, Machine Learning, Cryptocurrency, Scientifc Programming