

Danny Quang

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EDUCATION

- **University of California, San Diego** San Diego, California
Bachelor of Science - Computer Science; GPA: 3.644 *Expected Graduation: 2024*
Relevant Coursework: Advanced Data Structures and Algorithms, Design and Analysis of Algorithms, Computer Systems and Systems Programming, Software Engineering, Object-Oriented Programming, Multivariable Calculus, Linear Algebra, Probability and Statistics, Multivariate Statistics/Statistical Learning, Discrete Maths, Representation Learning, Intro to Machine Learning, Recommender Systems and Web Mining, Database System Principles

SKILLS

- **Languages:** Python, Java, C, C++, Assembly, R, Swift, HTML, JavaScript, CSS, SQL
- **Frameworks:** ScikitLearn, Scipy, Matplotlib, Numpy, Pandas, Tensorflow (Keras), RegEx
- **Tools:** LaTeX, MATLAB, Vim, GitHub, Jupyter Notebook, VSCode

WORK EXPERIENCE

- **Data Analyst Intern at The Center for Community Energy:** June-October 2022
 - Position: Data Analyst Intern on the Carport Market Research Team
 - Plotted points from a file on a map with Python and embedded it on a site online with github.io
 - Web scraped multiple car company websites targeting key words with BeautifulSoup4(bs4), pandas, and numpy
 - Aided in market research involving V2G data. Website: https://centerforcommunityenergy.org/danny_quang/
- **Webmaster for the American Institute of Aeronautics and Astronautics:** May-Present
 - Position: Webmaster
 - Maintained and updated the website for elected positions and events for AIAA UCSD

PROJECTS

- **Top Movies app:**
 - Pulled data from a movies database of the current top movies in the United States
 - Designed an app that pulls top data using AlamofireImage in Swift from a movies database (<https://api.themoviedb.org>) and listed them out with a cover image on the left, the title at the top, and a synopsis directly below.
- **Created website for local image editing:**
 - Styled a responsive home, gallery, and edit page with CSS with rotate, brightness, etc.
 - Used localStorage in JavaScript and indexDB so users can work locally and store large images
 - Developed unit tests with Jest and end-to-end tests with Puppeteer
- **Explored and analyzed beer reviews to predict ratings:**
 - Utilized matplotlib to plot data, pandas to clean and organize data. Used techniques like TF-IDF(TfidfVectorizer()) to represent reviews as a vector
 - Tried different combinations of prediction techniques (e.g. bag of words+linear regression (with train-test splitting the data to train and test model), TF-IDF+SVM+linear regression, etc.)
 - Utilized GridSearchCV to determine optimum parameters to predict rating, and Pipeline to streamline the process
- **Web Scraping tradingview and cars:**
 - Automated changes in stock prices for top market cap companies
 - Used requests, BeautifulSoup4, to go to the websites, parse html, and numpy to organize and create the dataset
 - Used the same process to filter out for important data for cars within a budget and certain criteria
 - Plotted data and used github.io to host the plots
- **COVID-19 data, find which day had the highest average amount of cases for a particular race category:**
 - With a dataset of entries with the date, state, and cases for each race category, using Java, each entry in the file would be read by line and would become a DataPoint object
 - Grouped DataPoints by their date and race categories
 - Found the number of cases for the race category and got the average/mean. Compare each date and return the date with the highest average cases for the race category.