# Elliot Quan

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## Education

**University of California, Berkeley**                                      **Aug 2016 - May 2020**
*B.A. Statistics, emphasis in Computer Science* | GPA: **3.78/4.0**
Coursework:
- **Statistics:** Linear Models/Regression, Stochastic Processes, Probability, R, Causal Inference
- **Computer Science:** Machine Learning, Algorithms, Data Structures, Data Science

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## Experience

**Math/Statistics Tutor, UC Berkeley Student Learning Center**          **Aug 2018 - Present**
- Provide drop-in and group tutoring services for probability and statistics students
- Held weekly exam review sessions and office hours for Stat 198 course (70 students)

**Research Assistant, UC Berkeley School of Public Health**          **Feb 2019 - Dec 2019**
- Merged and cleaned disease/agriculture data in master database with Python/R
- Used Twitter API to collect >50k West Nile Virus tweets for analysis with Python
- Transformed and visualized features for regression and spatial analysis

**Supply Planner Intern, Marvell Semiconductor**                       **Jun 2019 - Aug 2019**
- Analyzed supply chain data to create expired material disposition orders, saving >\$ 10k in monthly storage fees
- Developed VBA scripts to improve daily reporting efficiency, reducing weekly time spent by 3 hours
- Created Tableau dashboards to analyze and forecast product cycle times

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## Projects

- **London Marathon Analysis:** Scraped 6 years of marathon data (>230k results) into an SQL database using Python. Used statistical analyses to find the optimal race strategy and created visualizations of results.
- **Twitch.tv Markov Chain Chatbot:** Created an IRC chatbot using Python that trains on users' messages, generates messages using markov chains, and sends them to the chat. Logs 10k messages/minute and can be trained on other texts (books, tweets).
- **Cave Quest:** Developed a 2d roguelike/exploration game using Java. Created UI elements, combat mechanics, and a save/load system. Room layout and game elements are randomly generated, and save progress is erased upon death.

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## Skills

- **Proficient:** R (dplyr, ggplot2), Python (numpy, pandas, sklearn, Jupyter), Java
- **Familiar:** SQL, Tableau, Git, Linux/Bash, Excel, VBA, PowerPoint