**ETHAN QIU**

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# EDUCATION

**University of California, Berkeley**  **Berkeley, CA**

*Bachelor of Arts in Data Science Expected Jun 2028*

*GPA: 3.961*

* **Relevant Coursework:** Data Science,Data Engineering, Probability Theory, CS61B (Data Structures in Java), Linear Algebra, Multivariable Calculus
* **Tools and Languages:** Python, R, Java, Git, GitHub, Vim, Pandas, PyTorch, SQL, Tensorflow, scikit-learn, NLTK, NumPy, Matplotlib, Seaborn, Jupyter, AWS

## Lowell High School, San Francisco San Francisco, CA

*GPA: 4.45/4.00 Aug 2020 - May 2024*

* **Relevant Coursework:** AP Calculus BC, AP Statistics, AP Computer Science A, AP Physics C

# WORK & PROFESSIONAL EXPERIENCE

## Structure Therapeutics South San Francisco, CA

## *Data Science Intern May 2025 – Aug 2025*

* Leveraged R to maintain and validate new features for clinical trial internal visualization and analysis tools.
* Improved backend performance for internal apps using caching and memoization, speeding up runtime ~80 seconds.
* Applied data science techniques and optimized an LSTM neural network pipeline to internally predict clinical trial success using patient metrics.
* Collaborated with clinical scientists and medical affairs teams for feature selection and data handling/ evaluation.

## Kurma AI San Francisco, CA

*Data Analyst Intern Feb 2025 – May 2025*

* Performed preprocessing data analysis on research papers and pdfs using Python, RegEx, and pymupdf4llm.
* Assisted in developing and maintaining databases and other strategies that optimize statistical efficiency and quality.
* Helping interpret data, analyze results using statistical techniques, and prepare ongoing reports.

## Dumpling Depot Restaurant Sunnyvale, CA

## *Office Assistant* *Jun 2022–Aug 2022*

* Redesigned a new catering website via Java-script and on wix.com, and created a new menu option on the website.
* Prepared invoices weekly to upload to OneDrive in chronological order and organized miscellaneous invoices.
* Created an invoice management system (OCR) and increased website monthly sales by ~10% through catering extension.

## AP Calculus BC Tutor Berkeley, CA

## *Independent - Part-time* *Jan 2025–Present*

* Provided 1 on 1 online tutoring to high school students, focused on topics such as integration and differential equations.
* Utilized various teaching methods and online resources to enhance student understanding and engagement.

# LEADERSHIP & EXTRA CURRICULAR EXPERIENCE

## BIG Summer Day Camp San Francisco, CA

## *Camp Counselor Jun–Aug 2020–2024*

* Led activities that encouraged collaboration and confidence to ensure campers were engaged creatively and cooperatively
* Practiced conciseness, projection and confident body language while speaking publicly and giving instructions.

## Lowell Project Code San Francisco, CA

## *Secretary Sep 2023* – *May 2024*

* Facilitated meaningful discussions on upcoming projects, competitions and general coding concepts/advice.
* Organized hackathons fostering a dynamic environment of knowledge-sharing and skill development among members

# PROJECTS

**Credit Card Fraud Analysis |** (Machine Learning, Scikit-Learn, Hypothesis Testing, EDA) *Feb – May 2025*

* Studied correlations with other undergrads between certain features and the amount of fraud-transactions per country
* Currently creating ML models to classify fraudulent transaction based on feature engineering and hypothesis testing

**Sequential Neural Network from Scratch** | (NumPy, Python, Pandas, Kaggle) *Jan – Feb 2025*

* Created a 2 hidden layer sequential neural network from scratch using NumPy on the MNIST dataset in csv form
* Applied ReLU and SoftMax activation functions in forward and back propagation in order to train the model.