

Brett Loy

650-766-9194 | brettloy07@gmail.com | Foster City, CA | LinkedIn

EDUCATION

University of Southern California

Master of Science in Applied Analytics

Jan 2026 – Dec 2027 (Expected)

Los Angeles, CA

- **Coursework:** Applied Business Analytics and AI, Visualization with Data, Statistics for Applied Data Analytics, Regression Modeling for Applied Predictive Analytics

University of California, Davis

Bachelor of Science in Statistics – Data Science Track, Minor in Mathematics

Sept 2021 – Jun 2025

Davis, CA

- **Coursework:** Practice in Data Science, Multivariate Data Analysis, Statistical Learning, Applied Linear Algebra

SKILLS

- **Software Languages:** Python (Pandas, Polars, NumPy, Scikit-Learn, Matplotlib), R (dplyr, tidyr, ggplot2), SQL
- **Technical:** Tableau, Microsoft Office, Google Workspace, ML Models, Docker, Data Documentation and Reporting

EXPERIENCE

Program Assistant

Stanford Center for Asian Health Research and Education

Apr 2026 – Jul 2026

Palo Alto, CA

- Developed AI and data analysis curriculum such as prompt engineering, fact-checking, statistics fundamentals, and Python.
- Facilitated group project work in applied AI projects focused on topics related to Asian health disparities, helping them analyze information, build educational apps or websites, and communicate complex findings in clear, concise methods.
- Demonstrated strong communication skills by simplifying complicated concepts and leading project discussions.

SELECTED PROJECTS

Airbnb Market Trends Analysis | Python (pandas), SQL, Tableau

May 2025 – Jul 2025

- Executed end-to-end data pipeline by collecting, cleaning, and wrangling a public listing data dataset utilizing SQL. Performed data cleaning actions like removing null values and outliers, handling data types, and grouping data by neighborhood.
- Built an interactive Tableau dashboard using the data and San Francisco GeoJSON neighborhood boundaries, designing choropleth maps, custom tooltips, and filters to compare pricing, listing density, ratings, and value score across neighborhoods.

Heart Disease Risk Factors | R (dplyr, ggplot2)

Dec 2024 – Feb 2025

- Conducted EDA on a CDC dataset, visualizing trends to uncover health indicators associated with heart disease
- Engineered features by integrating categorical predictors to evaluate interaction effects via entropy-based methods, improving model interpretability and performance metrics for health risk prediction.
- Delivered actionable insights on critical health risk factors through intuitive data visualizations and statistical summaries, influencing public health strategies and advancing predictive modeling initiatives.

Restaurant Revenue Prediction | Python (pandas, NumPy, Matplotlib)

Jun 2024 – Aug 2024

- Built and compared multiple predictive models including linear regression, logistic regression, LDA, QDA, and SVM.
- Applied cross-validation and bootstrapping to evaluate model performance, variability, and generalizability to unseen data.
- Developed interpretable data visualizations of classification decision boundaries to analyze how business metrics differentiate high- and low-performing restaurants.

OTHER ANALYTICS AND LEADERSHIP EXPERIENCE

Entrepreneur

Prime Cuts Barber Company

Mar 2020 – Present

Foster City, CA

- Integrated an online booking system that automated scheduling and generated datasets for ongoing operational analysis.
- Conducted EDA on demand patterns using Excel pivot tables and Python, uncovering trends in peak hours and patterns with client behavior which improved marketing strategy and contributed to a 15% increase in monthly revenue.

Outside Service Operations

The Peninsula Golf and Country Club

Feb 2026 – Present

San Mateo, CA

- Track and analyze recurring operational activities to maintain resource availability and workflow efficiency.
- Apply standardized processes to proactively identify issues and support continuous operational improvement.

Treasurer

Tau Kappa Epsilon Fraternity

Sept 2022 – Jun 2025

Davis, CA

- Built Excel financial trackers using pivot tables to manage event reimbursements, donations, and expense logging.
- Presented clear financial summaries to executive team members without financial expertise, communicating financial plans and conclusions to non-technical collaborators.