

Riley Leong

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EDUCATION

University of California, Los Angeles (UCLA) | Los Angeles, CA
2026

September 2022 - June

Computational Mathematics, B.S.

TECHNICAL SKILLS

Programming Languages: Python, R, SQL, C++, C, JavaScript, Java, HTML/CSS, MATLAB

Databases & Frameworks: Snowflake, SQL Server, MongoDB, Kafka, Spark, Pandas, NumPy, PyTorch, React

Tools & Platforms: Git, Linux, AWS, Azure/DevOps, Kubernetes, Airflow, Tableau, Power BI, Vercel

Concepts: Probability and Statistics, Linear Algebra, Numerical Methods, Data Structures, Algorithms, Database Management

PERSONAL SKILLS

Teamwork, Problem Solving, Communication, Collaboration, Attention to Detail, Perseverance, Adaptability

EXPERIENCE

Data Science Intern

June 2024 - September 2024

First American

Santa Ana, CA

- Reformed data integration process using **R** and **SQL Server** to speed up document requests by 24% for property data product
- Developed **Python** scripts to validate **OCR** processes with **GX** and utilize **dbt** to re-engineer parts of data flow from ETL to ELT
- Integrated **Python** scripts into **Snowflake** ETL processes to automatically email a stored procedure's status to DBA team

Student Data Science Intern

January 2024 - April 2024

Poppin

Los Angeles, CA

- Engineered 1st data pipeline for social media startup with **Snowflake**, **dbt**, and **Airflow** eventually supporting +10,000 events
- Visualized user and financial metrics in a **MS Power BI** dashboard used directly in a pitch leading to Crunchbase funding

Undergraduate Teaching Assistant

September 2023 - December 2023

UCLA Mathematics Department

Los Angeles, CA

- Mentored peers in Introduction to Computer Science taught in **C++**, Introduction to Statistics taught in **R**, and Calculus I
- Developed the curriculum for 9 review sessions surrounding topics like **Naive-Bayes**, **Hypothesis Testing**, and **A/B Testing**

PROJECTS

- **Data-Valex** | *Python, React Native, TypeScript, Great Expectations*
 - Developed web application in React Native and TypeScript with backend supported by Python library GX to perform simple binary and boolean operations on uploaded datasets.
 - Designed a simple UI/UX design to allow users to perform **validation**, **check quality**, and **feature analysis** quickly
- **Healthy Communities** | *Python, Tableau, PCA*
 - Conducted principal component analysis in **Python** to reduce a county health dataset and perform feature extraction to support evidence for established causes of physical inactivity
 - Visualized these [results](#) in **Tableau** for the use of Bigham Lab in the Anthropology Department at UCLA
- **NLP Application** | *Python, Flask, OpenAI API*
 - Created a framework in Flask performing exploratory data analysis and transformation on media data in Python
 - Performed regression and classification tasks in PyTorch to predict personality types from social media post captions
- **Character Management** | *MongoDB, MySQL, Python*
 - Identified a client's need to switch from relational DB **MySQL** to NRDB when adding complexity to character profiles
 - Integrated **MongoDB** with the Discord bot ACRaffle so client can efficiently manage +1,000 character profiles