McAelan Remigio

number | email | linkedin.com/in/mcaelan/ | github.com/McAelanRemigio | mcaelanremigio.github.io/

EDUCATION

San Diego State University (SDSU) - San Diego, CA   **May 2027**
Bachelor of Science in Statistics: Data Science   GPA: 3.63

Honors/Leadership: Daniel B. Nowak Outstanding Student Services 2025 Leadership Award Winner
Leadership/Service: Cofounding Partner, Coalition of Technology Representatives and Leadership,
Data Science Council Representative, College of Sciences Student Council

PROFESSIONAL EXPERIENCE

Data Analyst   **July 2025 - Present**
San Diego State University Career Services - San Diego, CA
- Analyze 26K+ student census records in R with data visualizations to inform the team of Directors on program strategies
- Perform comprehensive labor market analytics across four California State University institutions to support a statewide workforce development proposal, contributing to a $2M grant application
- Design reproducible workflows, standardize PLM reporting, and improve reporting efficiency across Career Services

Data Scientist   **May 2025 - July 2025**
Vera C. Rubin Observatory via San Diego State University - San Diego, CA
- Developed rule-based detection criteria using flux variability metrics and validated 3.5 TB of photometric measurements
- Engineered variability features, applied PCA to create a multi-feature demo space that determined pulsating star classes
- Built a clustering-based classification model for variable stars using custom features, achieving ~97% accuracy

Data Scientist   **March 2024 - May 2025**
San Diego State University Research Foundation - San Diego, CA
- Contributed to a $1.27M NSF HSI reform project by conducting statistical analysis to evaluate outcomes
- Co-designed a 2-year professional development program for math educators across partner HSIs
- Analyzed academic outcomes of 10K+ HSI students using R, SQL, and regression modeling, boosting success rates by 60%

Data Analyst   **August 2024 - December 2024**
San Diego State University - San Diego, CA
- Streamlined data pipelines to track attendance and sentiment across 20+ programs, improved resource allocation by 20%
- Cleaned and analyzed post-event survey data in Excel to assess program effectiveness, increased retention by 50%

Data Science Fellow   **June 2024 - September 2024**
Centers for Disease Control and Prevention (CDC) - Atlanta, GA
- Conducted a 4-year global coronavirus dataset analysis in collaboration with the World Health Organization (WHO) to identify regional trends on SARS-CoV-2 and its variants, improved reporting accuracy to 100%
- Designed a Python-based data standardization pipeline using pandas and NumPy, reducing processing time by 40%
- Supported CDC research on SARS-CoV-2 genomic surveillance by evaluating sequencing strategy data

SKILLS

Languages: Python, R, SQL, SAS

Libraries/Tools: Pandas, NumPy, Scikit-learn, Statsmodels, Matplotlib, Tidyverse

Technical: Data Management, Statistical Analysis, Machine Learning, Feature Engineering, PCA

Databases: MySQL, Google BigQuery, PostgreSQL, SQLite

Platforms: VSCode, RStudio, Tableau, Jupyter, GitHub/GitLab