

# Joaquin Mendoza

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## EDUCATION

### San Diego State University

*B.S. in Computer Science*

San Diego, CA

Aug. 2021 – Dec. 2024

- **GPA:** 3.78/4.00 Cumulative
- **Relevant Courses:** Machine Learning, Data Science, Neural Networks, Database Theory, Software Engineering.
- **Extracurriculars:** Waterski Club (Vice President), AI Club (Project Lead), Pickleball Club (D1 Team)

## EXPERIENCE

### Data Intern

*GoFundMe Inc.*

May 2024 – Aug. 2024

San Diego, CA

- Engineered a mapping diagram for fee types, aligning data from Snowflake transaction tables, Looker dashboards, and Confluence, integrating results from 50,000+ transactions for simplified fee revenue analyses.
- Developed a robust dbt model for Stripe revenue aggregation, incorporating data from 30+ Zuora charge plans into Salesforce, refining data flow for accurate revenue forecasting.
- Revamped a Snowflake-based KPI model, reducing model complexity by 43% and accelerating reporting workflows for over 4,200 charities.

### Software Engineer Intern

*Real Frequency – Launch Agency*

May 2023 – May 2024

Spokane, WA (Remote)

- Developed and oversaw a data reporting app using Flask, SQLite, and HTML, saving \$50k in labor costs annually.
- Implemented data sync solutions using SQLAlchemy and REST APIs, cutting data entry time by 25 hours weekly.
- Deployed automation scripts with Google App Scripts to synchronize G-Suite appointment data, resulting in 15-hour weekly time savings for the team.

### Software Engineer Assistant

*IT Division, San Diego State University*

Dec. 2022 – Dec. 2024

San Diego, CA

- Built instruction-facing Docker containers on National Research Platform's (NRP) hypercluster: Nautilus.
- Managed user access and HPC resource allocation across 7 different Kubernetes-hosted JupyterHub instances.
- Streamlined weekly feature releases and bug fixes to CSU-wide projects using Git, CI/CD, and Kubernetes.

## PROJECTS

### Sharp Eye (CS 574) | *Ultralytics, PyTorch, Matplotlib, OpenCV*

Feb. 2024 – May 2024

- Developed a specialized object detection model to track multiple players during pro pickleball videos.
- Achieved a 95% F1-score by fine-tuning the YOLOv8s model on over 740 annotated, augmented video frames.

### Real Insights (Real Frequency) | *JavaScript, Flask, HTML/CSS, SQLAlchemy, Plotly*

Aug. 2023 – Jan. 2024

- Built a user analytics system, leveraging a 3rd-party LMS REST API for creating actionable insights.
- Alleviated crucial bottlenecks in client analysis by saving my team over 10 hours in weekly manual data entry.
- Produced 162+ interactive dashboards monthly for 25 sports organizations, using Flask, Plotly, and SQLAlchemy.

### Spotify Atlas (CS 574) | *Scikit-Learn, Spotify API, Matplotlib, Pandas*

Feb. 2024

- Designed and implemented a song recommendation engine on a 114,000-song dataset using K-Means clustering.
- Utilized the Spotify API to rectify missing values, ensuring consistent representation of all tracks and genres.

## TECHNICAL SKILLS

**Languages:** Python, C/C++, JavaScript, SQL

**Frameworks:** Flask, Google App Scripts

**Developer Tools:** dbt, Snowflake, MS Excel, REST APIs, Docker, Kubernetes, Git

**Libraries:** SQLAlchemy (ORM), SQLite, Pandas, Plotly, Matplotlib