

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, Database Theory, Algorithms, UNIX System Admin.
- **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

- Proactively engaged with cross-functional stakeholders to gather requirements, build relationships, and deliver comprehensive business insights.
- Refactored a core model using Jinja2 and Snowflake, cutting length by 43% and boosting feature scalability.
- Engineered a dbt model to aggregate Stripe revenue for 4,200+ charities, integrating Zuora data into Salesforce to enhance sales and forecasting decisions.

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.

Student 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 within 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