

# Joseph Weil

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## Professional Summary

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Analytical and detail-oriented professional working in data labeling and AI safety at Meta, skilled in large-scale data labeling and quality assurance. Experienced in applying numerical methods to various scientific fields, with the ultimate goal of leveraging problem-solving skills to contribute to interdisciplinary work in data science.

## Education

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### University of California, San Diego

Oct 2020 – Mar 2024

- BS in Mathematics – Applied Science
- Minor in German Studies

## Professional Experience

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### Data Labeling Analyst II CW, Meta – San Diego, CA (Hybrid)

June 2025 – Present

- Identify potential risks and model weaknesses through systemic evaluations and creative prompt probing in both English and German
- Analyze annotation outputs and user scenarios to uncover risk patterns, contributing to model performance improvements and safer system behavior.

### Mathematics LLM Trainer, Outlier – Oakland, CA (Remote)

Apr 2024 – May 2025

- Assess AI-generated solutions to advanced undergraduate-level mathematical problems from subjects such as calculus and linear algebra, editing and rewriting solutions in LaTeX to ensure factual and notational conformity

### Quantum ML Intern, Florence Quantum Labs Startup (Remote)

Sep 2024 – Oct 2024

- Gained foundational knowledge in quantum computing concepts, including qubits, quantum gates, quantum algorithms, and machine learning concepts, with application in the Qiskit Python framework

### Delivery Associate, KMB Concepts LLC. – Poway, CA

June 2023 – May 2025

- Provided excellent customer service and loaded and unloaded delivery vehicle while adhering to safety protocols

### Navigator Laborer, Junk King – Sacramento, CA

June 2021 – Sept 2021

- Proper and safe removal, loading, and recycling of items while providing excellent customer service and sales

### Recreation Leader, City of Folsom – Folsom, CA

June 2018 – July 2020

- Designed and implemented summer camp programming, activities, and field trips for large groups of children

## Skills and Languages

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- **Technology:** Python, Pandas, Google Suite, MATLAB, Java, SQL, LaTeX
- **Language:** German – Intermediate orally and fluent reading/writing
- **Additional:** Attention to detail, strong verbal and written skills, initiative to work independently

## Projects - See personal website above

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- **Personal Portfolio Website:** Designed and developed a personal website from scratch using HTML, CSS, and Javascript for the purposes of displaying personal projects.
- **iNaturalist API Observation Data Scraper:** Developed a Python-based data pipeline to collect and preprocess ecological observation data from the iNaturalist API, optimizing data handling for further analysis.
- **iNaturalist Data Case Study:** Conducting data cleaning, visualization, statistical analyses, and applying machine learning models on iNaturalist ecological data to both identify patterns in species distribution and biodiversity and assess ecological accuracy/data utility [in progress].
- **Personal Budgeting Application:** Building and dogfooding a personal budgeting application based in Python and the Pandas library for expense tracking, detailed analysis, and informed decision-making [in progress].

## Additional

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**Certification:** Scientific Computing in Python – FreeCodeCamp

Oct 2024 – Nov 2024

**Extracurricular:** UCSD Collegiate Sailing Team

Sept 2021 – Mar 2024

**Mathematics & CS Coursework:** Differential, Integral, Multivariate, and Vector Calculus for Engineering, Differential Equations, Real Analysis, Statistical Methods, Numerical Analysis: Linear algebra, Approximations, and Nonlinear Equations, and Accelerated Intro to Computer Science - Java

**Physics Coursework:** Mechanics, Electricity and Magnetism, Optics, Thermodynamics, Fluids, Waves, Relativity and Quantum, Stellar Astrophysics and Black Holes, Atmospheric Dynamics, Ocean Waves