

# 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 at Meta**, Rose International – San Diego, CA (Hybrid) **June 2025 – Present**

- Collaborate with the AI development team to design and execute probing and creative prompts expressly to identify weaknesses and vulnerabilities in the models via red teaming in both English and German
- Developed a nuanced understanding of Meta's CRS and AI Studio policies

**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

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See personal website above for some of these projects in their entirety.

- **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