Catherine Weiss

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SUMMARY

Data Engineer with experience building production-grade AI systems, distributed data pipelines, and machine learning services at scale. Proven track record delivering real-time and near-real-time inference systems, LLM-powered applications, and data workflows that drive measurable business impact. Strong background in Python, SQL, generative AI, and cloud-native architectures.

EDUCATION

Master of Information and Data Science | University of California, Berkeley | 2025
Bachelor of Science in Mathematics | Loyola Marymount University | 2017

PROFESSIONAL EXPERIENCE

Algolia, Inc. | Los Angeles, CA
Data Engineer | March 2024 - Present
- Build and maintain data analytics pipelines and logging data models processing **3M+ events per day** using Python, SQL, dbt, and Airflow
- Deploy **production ML models** for ranking and revenue optimization with **real time inference**
- Defined data quality checks and freshness expectations for analytics pipelines supporting product and engineering teams
- Designed beta distribution data models supporting sales engineers to prove ranking improvements to prospects
- Owned end to end data architecture of **temporal workflow to copy 100K+ analytics events** across Algolia applications on a 12 hour cadence
- Develop generative AI data enrichment that produces **an additional 400K in revenue** in a two week A/B test

Senior Developer Support Engineer | May 2022 - March 2024
- Presented an analytics solution built with Algolia and Google Tag Manager the 2023 annual DevCon to **more than 1,000 participants**
- Served as the **AI Subject Matter Expert**, training the support team and broader customer success team on Algolia's recommendation, personalization, and vector search engines

Technical Account Manager | August 2021 - May 2022
- Led onboarding and solved complex search and data problems for enterprise clients

Huron Consulting Group | Portland, OR
Senior Technical Consultant | July 2020 - August 2021
- Led data pipeline project as senior technical lead resulting in completion 2 months ahead of schedule
- Developed an API to integrate Huron's solutions with DocuSign, revitalizing internal technical processes
- Mentored new hires, including teaching basics of object-oriented programming and consulting introduction

Technical Consultant | August 2018 - July 2020
- Designed, built, and deployed ETL/ELT solutions used by **more than 30,000 users** on a daily basis

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TECHNICAL SKILLS

Languages: Python, SQL, Go
Data & Analytics: pandas, NumPy, dbt, Airflow, Hex, temporal, jupyter, Tableau
Machine Learning: Regression, RAG, LLM Orchestration, tensorflow, pytorch, scikit-learn
Databases: Postgres, BigQuery, SparkSQL
Cloud: GCP, AWS