

Aspiring Data Engineer with 3 years of experience at Meta, specializing in solving big data challenges within a large-scale data warehouse environment.

EXPERIENCE

DATA ENGINEER, THE NATURE CONSERVANCY, CA - 10/24 - PRESENT

- Developing an end-to-end system in Python to automate API calls to Planet Labs, enabling retrieval of high-resolution satellite imagery for environmental analysis.
- **Building an ETL pipeline** that processes **100+ GB of satellite data weekly**, integrating automated reporting and data querying to streamline access to new imagery.
- Enhanced data processing efficiency by **40%** through **optimized pipeline architecture**, reducing latency in detecting critical environmental changes.
- Collaborated with cross-functional teams to deliver actionable insights, leading to a 25% improvement in monitoring endangered river ecosystems.

DATA INFRA ENGINEER, META (at Crystal Equation), CA — 03/22 - 05/24

- **Provided direct support** to Meta engineers, successfully debugging 74% of requests related to big data warehouse issues.
- **Optimized Python, SQL and regex queries** in a big data environment to meet customer needs.
- **Developed and implemented** improvements, documentation, and tools, resulting in a 40% reduction in incoming support queries.
- **Handled critical tasks**, including fixing mission-critical ETL pipelines, restoring missing data, and integrating customer feedback to enhance performance in non-traditional relational databases.

WEB CONTENT DESIGNER, UC DAVIS MATH DEPT, CA — 03/21 - 06/21

- **Redesigned two University-level Linear Algebra courses**, enhancing the curriculum with a data-driven approach.
- **Ported college courses online** by implementing reactive frameworks within 3 months, despite no prior experience.
- **Applied front-end engineering skills** to integrate LaTeX documents using HTML, CSS, and JavaScript for a seamless online learning experience.

AUTOMATION LEAD INTERN, WECARE, REMOTE — 05/20 - 9/20

- **Led a team** of 4 interns, ensuring project completion 2 months ahead of schedule by streamlining data workflows.
- **Developed a web scraping and automation tool** using Selenium, JUnit, and Java with Eclipse IDE, despite having no prior experience, to efficiently gather and process large datasets.
- **Created a data-driven tool** that identified the best insurance options based on specific criteria, achieving an 84% accuracy rate.

RESEARCH ASSISTANT, UC DAVIS MATH DEPT, CA — 04/19 - 09/19

- **Utilized data visualization skills** to create an informative poster for the Earth & Sciences convention, effectively communicating complex data insights.
- **Contributed to a particle convection library** by implementing findings from 2 research papers to simulate particle interactions using C++.
- **Documented and developed testing frameworks** to ensure the reliability and accuracy of research code.

EDUCATION

University of California, Davis — B.Sc Computer Science, 2022

University of San Francisco - Masters, Data Science & Engineering, 06/24 - Present

SKILLS

- Python, SQL
- Selenium, Spark, Snowflake, Hive, Spark
- AWS, Git, Docker, ETL