

JEREMY MUMFORD

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EDUCATION

Brigham Young University, BS Computer Science (Data Science emphasis) with Honors
Minors in Business, Statistics

Apr 2023

- **Hard skills:** Python, Ruby on Rails, NodeJS, C++, Java, R, Domo / Tableau, SQL, REST APIs, AWS, Git, Docker, Airflow, data engineering, data wrangling, CI/CD, DevOps, microservice architecture, LangChain
- **Soft skills:** Team communication, growth mindset, critical thinking, problem solving

WORK EXPERIENCE

Pattern Data Engineer

June 2022 - Present

- Developed multiple new data pipelines to productionize machine learning advertising algorithms that outperformed Amazon's own auto-adjusting ad bidding algorithms
- Integrated new data orchestration tool (Airflow) into company stack: building a new repo with CI/CD, doing AWS DevOps with SRE team, migrating existing complex SQL Snowflake pipelines processing millions of datapoints, creating documentation/onboarding processes, and deploying into production for global developer teams
- Added 500+ contributions across backend microservices, facilitating the operation of the largest Amazon seller in the world

BYU Broadcasting Lead Data Engineer, Business Intelligence Team

May 2021 – May 2022

- Lead backend team of student developers in creating and managing existing automated data pipelines that handled thousands of daily updates from multiple conflicting sources into a clean data lake of over 50 million rows using AWS and Domo which were validated at an accuracy of .05% error or less
- Pioneered use of visual/textual documentation to reduce onboarding processes from days into hours
- Worked closely with the company data scientist in designing new systems for upcoming projects such as a recommendation engine for BYUtv's massive video streaming platform

BYU Computing Support Specialist

Aug 2020 – May 2021

- Provided IT support for McKay College of Education across three buildings via in person, zoom, and phone support in collaboration with other team members
- Maintained, updated, and analyzed several databases containing user and device information across the college

Davis School District Summer Technology Technician

May 2020 – Aug 2020

- Executed large-scale rollout of 5,000+ laptops district-wide in a span of 3 months
- Resolved varied technical problems in ~10 district facilities to support school staff

Blip Billboards Intern

Sept 2017 – Mar 2018

- Standardized and streamlined process of obtaining, sending visual proof of product to hundreds of customers
- Collated results on several data collection/analysis projects, (ex: contact info ad agencies across a multistate region)

West Valley City Government Community & Economic Development Intern

Jun 2017 – Aug 2017

- Produced database of several hundred stray shopping carts, assessed data, and formulated a solution for the city
- Researched feasibility of a new city farmer's market, recommended a plan of action to city manager

Mathnasium Math instructor/tutor

Feb 2016 – Aug 2017

VOLUNTEER EXPERIENCE

The Church of Jesus Christ of Latter-day Saints Full-time Representative

Jun 2018 – Apr 2020

- Served in Southern Florida speaking Haitian Creole to help create new congregations and teach people
- Undertook intensive studying and dedicated lifestyle for two years, developed soft skills such as communication, teamwork, responsibility, adaptability, and problem solving

PERSONAL INTERESTS

Hobbies: Cine droning, canyoneering, rock climbing, sci-fi/fantasy novels, gaming, skiing

Personal projects: honors thesis research about improving human recognition of deepfakes, canyoneering app