

JAY CUI

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EDUCATION

Brigham Young University | Provo, UT, USA

Sep 2019 – Jun 2023

- B.S. in Mathematics, emphasis in Applied & Computational Mathematics
- Minor in Computer Science

Waterford School | Sandy, UT, USA

Sep 2016 – Jun 2019

- GPA: 4.00 | SAT: 1530/1600, 99th percentile
- Skipped senior year to go to college

PROFESSIONAL EXPERIENCE

ML Platform Engineer

Sep 2023 – present

BENlabs

- Enabled data scientists to build, test, and deploy machine learning models by building, troubleshooting, and templating CI/CD pipelines (GitHub Actions, AWS CDK)
- Migrated existing machine learning workflows from AWS Step Functions to Metaflow (Python)
- Increased data product quality by coaching the data scientists on software engineering best practices
- Set up model evaluation baseline for predicting YouTube video views by conducting exploratory data analysis (Databricks, SQL, pandas, matplotlib, seaborn, scikit-learn)
- Enabled data scientists to access up-to-date embeddings at all times by creating a data pipeline running on a schedule (Dagster, Pinecone)

Data Engineer Intern

Sep 2022 – Apr 2023

BEN Group, Inc.

- Enabled the data engineering team to control OpenSearch data access by building a CLI tool (AWS CDK, AWS OpenSearch Service, AWS Secrets Manager, pytest)
- Provided company-wide access to Twitch data by building three data pipelines (Twitch API, Gathr, AWS S3)

Frontend Software Engineer Intern

May 2022 – Aug 2022

Neighbor Storage, Inc.

- Enabled users to create and update rental listings and payment information by building UI components (HTML, Tailwind CSS, React with TypeScript) and API endpoints (Ruby on Rails, Go)
- Launched UI-Kit Version 2 by building 10 reusable, fully-tested React components (React Testing Library)

Backend Software Engineer Intern

May 2021 – Jul 2021

Pluralsight, Inc.

- Accelerated user data load time by 67% (6s to 2s) by redesigning the table concatenation procedure (SQL)
- Provided new content access to 17,000+ enterprise customers in 180+ countries by integrating 50GB of data into Pluralsight's insights & analytics platform (SQL, C#)

VOLUNTEER EXPERIENCE

Volunteer

Mar 2024 – present

Huntsman Cancer Institute

- Working on art projects with cancer patients and caregivers every Saturday morning

Vice President

Sep 2021 - Nov 2022

Society for Industrial and Applied Mathematics (SIAM), BYU Chapter

- Organized, advertised, and hosted 10+ recruiting events for 600+ undergraduate students in STEM