

# JAY CUI

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## PROFESSIONAL EXPERIENCE

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### Infrastructure Engineer

Sep 2024 –

*Revmatics, Inc.*

Lehi, UT, USA

- Enabled engineers and scientists to develop algorithms by deploying a search engine and populating it with 1,000+GB of data
- Gained visibility into the company's IT infrastructure health by building an observability platform using only open-source tools, saving the company \$100,000/year
- Educated the tech team (including my future self) on IT infrastructure tutorials and best practices by writing 20+ pages of technical documentation
- Centralized cloud network management by provisioning a shared VPC and migrating VMs across different Google Cloud projects to that shared VPC
- Enabled real-time incident detection by provisioning Cloud Monitoring alerts for critical IT resources
- Resolved 200+ IT support tickets for the entire company

### Platform Engineer

Sep 2022 – Jul 2024

*BENlabs*

Remote

- Reduced ML service deployment time by 50% by automating linting, testing, and infrastructure provisioning
- Reduced ML workflow setup time by 50% by turning the workflow into an auto-generatable template
- Provided company-wide access to self-updating vector embeddings by building data pipelines
- Enabled data scientists to train ML models on GPUs by automating cloud workstation setup
- Enabled data scientists to build a YouTube video view count prediction model by conducting exploratory data analysis (EDA) and building a baseline model
- Reduced ML application debugging time by coaching the data scientists on software engineering best practices

### Software Engineer Intern

May 2022 – Aug 2022

*Neighbor Storage, Inc.*

Lehi, UT, USA

- Enabled users to create and update rental listings and payment information by building 10+ UI components and API endpoints
- Launched UI-Kit Version 2 by building 10+ reusable, fully-tested React components

### Software Engineer Intern

May 2021 – Jul 2021

*Pluralsight, Inc.*

Draper, UT, USA

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

## EDUCATION EXPERIENCE

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### Brigham Young University - Provo

Sep 2019 – Jun 2023

- B.S. in Mathematics, Applied & Computational Mathematics Emphasis (ACME)
- Minor in Computer Science
- Heritage Scholarship: merit-based half-tuition scholarship