JAY CUI

shilongjaycui@gmail.com | linkedin.com/in/shilongjaycui | github.com/shilongjaycui

PROFESSIONAL EXPERIENCE

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

- Decreased ML workflow setup time by 80% by turning the workflow into an auto-generatable template (Metaflow, BentoML, projen)
- Decreased ML service deployment time by 50% by automating linting, testing, and infrastructure provisioning (GitHub Actions, pylint, pytest, AWS Cloud Development Kit)
- Provided company-wide access to self-updating vector embeddings by building data pipelines (Python, Databricks, Dagster, Hugging Face, Pinecone)
- Enabled data scientists to train ML models on GPUs by automating cloud workstation setup (bash, SSH, Linux, Docker)

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 (HTML, Tailwind CSS, React with TypeScript, Go)
- Launched UI-Kit Version 2 by building 10+ reusable, fully-tested React components (React Testing Library)

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 (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#, integration testing)

EDUCATION EXPERIENCE

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