JAY CUI

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

PROFESSIONAL EXPERIENCE

ML Platform Engineer   **Sep 2022 – May 2024**

BENlabs

- Decreased data science project lifecycle time by **98%** by templatizing machine learning workflows (Python, AWS Cloud Development Kit, GitHub Actions, Metaflow, BentoML)
- Increased vector embedding store quality by **50%** by building two self-updating data pipelines (Python, Databricks, Dagster, Hugging Face, Pinecone)
- Decreased data product debugging time by **20%** by coaching the data scientists on software engineering best practices
- Enabled the data engineering team to manage OpenSearch data access by building a CLI tool (Python, AWS Software Development Kit, AWS Cloud Development Kit)

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%** 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#)

RELEVANT SKILLS

DevOps & MLOps

Shell Scripting | CI/CD | AWS | Infrastructure as code (IaC) | Containerization | Monitoring | Metaflow | BentoML

Software Development

Python | TypeScript | Unit Testing | Integration Testing | React | TailwindCSS | HTML | Java | C# | Go

Data Science

SQL | Exploratory Data Analysis (EDA) | Pandas | Matplotlib | Seaborn | scikit-learn | TensorFlow

EDUCATION EXPERIENCE

Brigham Young University   **Sep 2019 – Jun 2023**

- B.S. in Applied Mathematics, minor in Computer Science
- Heritage Scholarship: merit-based full-tuition scholarship

VOLUNTEER EXPERIENCE

Volunteer   **Mar 2024 – present**

Huntsman Cancer Institute

- Working on art projects with **50+** cancer patients and their families

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