

Lawrence Xu

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EXPERIENCE

2022-2025 **Walmart ASR (acquired by Symbotic in February 2025)** - Andover, MA, USA

Software Engineer II - 2024-2025

Software Engineer I - 2022-2024

- Implemented core backend logic in Java (Spring) for the company's primary emulation framework, developing features and fixing bugs
- Reshaped CI/CD pipeline of emulation team, introducing trunk-based development and greatly reducing merge-to-deploy times
- Automated documentation and API client generation pipelines, integrating them into automated testing workflows and providing direct, auto-updated resources for emulation and SQA teams
- Configured and deployed Docker images, orchestrating them with Gitlab CI/CD and Kubernetes
- Built and maintained an internal web app (Svelte, Kubernetes, Gitlab API) used company-wide to deploy, manage, and test versioned releases of the company product, significantly improving release management and release reliability
- Maintained Helm charts for emulation and core product, ensuring deployment consistency
- Diagnosed cross-team issues via Azure Data Explorer, reducing testing downtime and discovering bugs
- Collaborated closely with developers, PMs, and QAs in an Agile development environment to deliver adaptable, compatible, and high-quality emulation software

EDUCATION

2018-2022 **Tufts University** - Medford, MA, USA

Bachelor of Arts in Computer Science

- Graduated *magna cum laude*
- GPA: 3.71, Dean's List
- Coursework: Algorithms, Data Structures, Web Development, Network Security, Cybersecurity, Machine Structure & Programming, Theory of Computation (TA), Game Development, Discrete Mathematics

PROJECTS

2025 **Flask Live Service Demo**

- Deployed a basic Python Flask web app on Kubernetes with monitoring and CI/CD integration
- Containerized with Docker and orchestrated using Kubernetes Deployment, Ingress, and Service objects on a local test cluster
- Integrated Prometheus client calls and connected with Grafana dashboards for visualization

2025 **Elevator Emulator**

- Built an elevator emulator service in Java with Spring Boot, exposing REST APIs for creating, calling, and managing simulated elevator objects
- Streamed elevator state data via WebSockets to support interactive and efficient monitoring
- Applied Spring Bean abstractions, allowing for efficient swapping of elevator selection algorithms

SKILLS & TOOLS

- **Infrastructure & Automation:** Kubernetes, Docker, Helm, Gitlab CI/CD, Github Actions, Bash, Prometheus, Grafana
- **Programming Languages:** Python, Java, JavaScript (Node.js), C++, C, C#, HTML, CSS, SQL
- **Frameworks:** Spring Boot, Svelte, Pytest, React
- **Other:** PostgreSQL, MongoDB, Git, Slack, Jira, Unity