EDUCATION

Boston University, Boston, MA

B.A. in Computer Science, Minor in Film and Television

<u>SKILLS</u>

- Programming: Python, Golang, Groovy, Bash, TypeScript, YAML, HTML/CSS
- Database Management Systems: MySQL, PostgreSQL, MongoDB
- Tracking Systems: Bugzilla, GitHub, Jira, Polarion, Trello
- Other Technologies: AI, Ansible, AWS, Containers, Elasticsearch, Git, Grafana, Jenkins, Linux, Prometheus

EXPERIENCE

Red Hat, Boston, MA

Senior Software Engineer

May 2024 - Present

July 2022 - May 2024 July 2020 - July 2022

July 2019 - July 2020

- Founding member of the team transitioning InstructLab from an IBM Research proof-of-concept to a public open-source project that enables AI model production across a variety of hardware-accelerated profiles and served as the basis for the first version of Red Hat Enterprise Linux AI
- Served on multiple maintainer teams in the InstructLab community, which entailed designing major technical features, setting community governance policies, reviewing Pull Requests, triaging Issues, maintaining CI/CD actions for testing and releases, and running public meetings
- Bootstrapped CI/CD actions across all InstructLab repositories and majorly expanded on the endto-end testing automation matrix for the Core, SDG, Training, and Evaluation libraries
- Owned several PyPI packages within the InstructLab organization, managing release policy and coordinating proper semvar tagging across multiple teams to maintain a stable dependency tree
- Senior Software Quality Engineer Software Quality Engineer Associate Software Quality Engineer
 - Conceptualized and constructed an automated end-to-end system which ran Performance and Scale tests of the Network Observability Operator within a managed Kubernetes / OpenShift cluster and shared test results to stakeholders within Engineering, Documentation, and Project Management
 - Designed and built a baremetal cluster load-balancing system in our hosted Jenkins CI platform with IRC client-based monitoring, which doubled utilization of server resources for automated installation and testing of Red Hat OpenStack Platform by the team
 - Created Jeeves, an open-source email report generator for Jenkins written in Python that was adopted by six internal teams and received contributions from over a dozen collaborators on GitHub

Boston University Spark!, Boston, MA

Lecturer

- Sept 2022 Dec 2022
- Co-instructed DS/CS 519 "Spark! Software Engineering X-Lab Practicum" course, which was designed to give students the opportunity to work on real-world software projects from partner clients in the Boston area, providing them with practical software engineering experience prior to entering the work force
- Shared responsibility for writing course content, grading, and conducting lectures and office hours

VOLUNTEERING

TransitMatters, Boston, MA

Labs Volunteer Labs Co-Lead Sept 2020 - Present

Nov 2023 - Nov 2024

- Contribute and review code for a variety of open-source TM Labs applications, such as the New Train Tracker and Data Dashboard
- Wrote initial CI and CD systems for several TM Labs applications using free open-source tools such as GitHub Actions and Ansible to automatically lint and deploy applications to AWS EC2 and Lambda, allowing us to minimize cloud compute overhead costs to the organization

May 2019