

Dong, Fangxiao (Fisher)
Springfield, VA-22153
fangxiao.dong@outlook.com
(859) 559-7926
<https://fangxiao-dong.github.io/cv/>

QUALIFICATIONS

Languages: JavaScript (Node.js, TS), Python, Go, Groovy, Bash/Shell, HTML/CSS, XML/YAML/JSON

RDBMS: MySQL, SQL Server, PostgreSQL

Development Environment: Linux/Unix/Mac OS X, Windows

Editor/IDE: Visual Studio Code, IntelliJ, Nano, Visual Studio

Version Control/Code Review: Git/GitHub, Phabricator, Sourcegraph, Team Foundation

Continuous Integration/Delivery: Jenkins, Github Actions, Artifactory, Travis CI, Azure Devops

Container Orchestration/Management: Docker, Kubernetes, Helm

UI Test Automation Frameworks: Webdriver, AppliTools, Appium

Software Development Life Cycle (SDLC): Agile/Scrum, Kanban

Technical Writing/Documentation: Confluence, SharePoint, Markdown, Office, G Suite

Other: JIRA, Rally, Accessibility (a11y), AWS, GCP, Splunk, Datadog, SauceLabs, Slack, MS Teams

EXPERIENCE

Senior Software Engineer II (Remote)

01/2023 to Present

Optum Tech (formerly known as Rally Health), Springfield, VA, USA

- Developed features as part of the team for the United Health Group's mobile/web app, enabling millions of users to choose high-quality and most cost-effective medical care
- Lead the migration of Jenkins Pipelines and libraries to GitHub Actions
- Developing tools to enable and improve the whole SDLC processes in CI/CD, ticketing automation, ephemeral sandbox environment, etc.
- Developing reusable custom GitHub actions to accommodate workflow logics across repos

Software Engineer II (Remote), CI Infrastructure/Developer Tools

Twitter, Springfield, VA, USA

08/2021 to 01/2023

- Led CI/CD tools consolidation efforts; Saved \$250k annual license fee
- Drove and developed features to notify mobile developers of the ETA and queueing position for their changes to be tested and landed
- Led modernization efforts for the dashboard UI of the internal CI middleware to improve team's productivity (React hook, functional components, local mock testing, etc.)
- Integrated IntelliJ IDE supports into Jenkins pipeline development environment via Gradle
- Designed and developed CI sandbox playground feature to allow customers to test their CI pipelines more easily; Reduced turnaround time by 3 hours
- Optimized mobile CI/CD pipelines resources utilization on GCP by improving CI infra (agent/controller selection, traffic sharding, builds throttling, verbose logging reduction)
- Led the development of sharable module abstractions in the pipeline library to reduce code duplication/bloat and improve reusability
- Mentored intern on the project that is an essential part of the team's OKR
- Collaborated with teams to improve CI resiliency (auto skip/retry flaky tests, scaling, etc.)

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Senior Software Engineer, CI/CD/Automation and Tool

Rally Health, Washington DC, USA

11/2019 to 08/2021

- Led the development of sub-tenant environment libraries and pipelines utilizing k8s, Jenkins, Ansible and Github/Slack API allowing developers to identify issues earlier and test changes before merging the PRs
- Utilized Groovy, Python, Github API and JIRA API to enhance the automation of weekly release notes generation and smooth out the process for stakeholders to sign off the release
- Led the development and continuous improvements of internal tooling using Node.js, Python, Jenkins Pipeline and Github API to efficiently diff the result of large data ingestion and service's response against baselines to minimize the risks of data regression
- Created new and improved existing Jenkins shared pipeline libraries for modularization
- Worked with senior UI engineers to develop and test UI features in React and Jest/WDIO
- Built and Standardizing CI/CD pipelines for UIs and microservices
- Developed tools to tighten weekly deployment and release processes

Senior Software Development Engineer in Test

Evolent Health, Arlington, VA, USA

01/2019 to 08/2019

- Developed test automation scripts in Appium Java Client and JUnit for iOS and Android apps
- Integrated UI tests into Azure Devops CI/CD (previously known as VSTS)
- Led the API test automation separate from UI automation

Software Development Engineer in Test

Oracle (UGBU previously known as Opower), Arlington, VA, USA

11/2015 to 01/2019

- Created E2E API test automation scripts for microservices that power the front end widgets
- Integrated test suites into the CI system through Jenkins Scripted Pipeline
- Developed a test automation framework utilizing Applitools to standardize testing processes
- Prototyped an ad-hoc testing framework to assist the E2E web apps testing
- Led the development of tooling in JavaScript to improve the localization QA process

Software Test Engineer

Lexmark International, Lexington, KY, USA

06/2013 to 10/2015

- Led the development of tooling in Python/VB scripts to develop side by side strings lookup/comparison database for both Unicode and non-Unicode languages
- Developed automation solutions in Bash for application installations and configurations
- Created and executed automated and manual test cases for ECM software

EDUCATION

University of Kentucky

Lexington, KY, USA

Master of Science, Mechanical Engineering

Computational Thermal and Fluid Science

08/2010 to 08/2013