

Summary

Software test engineer with experience testing cloud services, APIs, firmware, hardware, and mobile apps. Creatively uncovers issues and bugs to ensure high quality systems for clients.

Skills

Languages: Java, Python, JavaScript, C#, C++, SQL, HTML/CSS

Frameworks: JUnit, pytest, Selenium, .NET, Node.js, Mocha

Tools: Git, AWS, Jenkins CI/CD, JIRA, PyCharm, IntelliJ, Postman, PagerDuty, Kibana, Allure, SonarQube

Test Methodologies: Unit, Functional, Integration, End to End, UAT, Performance, High Availability

Professional Experience

Sonos

Senior Software Development Engineer in Test

2018 - 2024

- Created strategic test suites and automation to ensure quality of cloud services and player firmware, focusing on voice interaction, subscription entitlement, and settings propagation
- Cooperated with partner companies to provide listeners with the best voice and sound experiences possible
- Planned and documented test strategies and product requirements
- Organized cross-functional meetings about emerging services to speed test development
- Participated in and trained colleagues for on-call shifts for AWS services using PagerDuty
- Communicated across teams and companies with developers, project managers, devops, UX, release engineers, and testers to ensure we met product requirements and KPIs
- Advocated for service engineering best practices

Software Test Manager

2017 - 2018

- Guided test engineers and SRE to deploy high-quality, robust cloud services including Alexa voice integration
- Met with partner companies to ensure mutual success of partner and Sonos platform integrations

Software Test Engineer / Senior Software Test Engineer

2016 - 2017

- Led deployments and testing of multi-part cloud-based music software systems to improve quality and reliability, including Spotify app control of Sonos systems
- Triaged incoming bugs from test engineers and beta users across multiple services, teams, and companies
- Collaborated with dev and test teams to release more usable and enjoyable tools, apps, and products

Associate Software Test Engineer

2015 - 2016

- Tested API-level functionality of developer tools and apps for use with wireless audio systems
- Developed and maintained test automation suites and harnesses for JavaScript tools using Node.js / Mocha / Chai
- Created and updated Selenium Webdriver and SeleniumIO automated tests for user interaction with web services
- Verified iOS, Android, and JavaScript apps and their integration with hardware and software

Foliage

Software Engineer

2013 - 2015

- Developed next-generation warehouse automation robots by building a C# MSTest suite to guarantee their safety, performance, and reliability
- Instituted interdepartmental processes for managing tests, defects, and documentation to achieve safety certification
- Generated python unittest scripts in a SpiraTest suite for an extreme ultraviolet lithography system

Education

Continuing Education

Artificial Intelligence [Berkeley CS188.1x] • Intro to CS Using Python [MIT 6.00.1x] • Intro to Linux [LFS101x]

EdX

BS in Mechanical Engineering

Tufts University

Minor in Music Engineering: Electronic Musical Instrument Design

Relevant Coursework: Data Structures • Cloud & Power-Aware Computing • Discrete Math • Circuit Theory • Senior Design Project

Interests

- Music Technology • Interactive Art • Gaming • Writing • Blues and Contra Dancing • Crafting • Gardening