Jonathan Mascarenhas

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EXPERIENCE

Quality Assurance Engineer Intern

June 2024 - Aug 2024 Boston, Massachusetts

Amazon

• Improved automated test coverage for the Blink-Alexa integration from 23% to 52% using the Kotest framework - covering unit, functional, integration, regression, and acceptance tests.

- Identified relevant test scenarios and criteria, set up and configured test environments, and developed a comprehensive test plan in collaboration with developers, QA engineers, stakeholders, and members of the external Alexa team.
- Implemented locale-specific testing for the Blink launch in Mexico by adding functionality for running the test framework in es-MX.
- Developed a test traceability matrix and documentation in JIRA, and built a test suite in TestRail to track automation coverage.
- · Independently executed tests, identified defects, and ensured functionality met requirements. Collaborated with teams to resolve issues, provided triage support, and tracked bugs from detection to resolution.

Software Engineer Intern

May 2023 - Aug 2023

Blackboard Inc.

Remote

- · Migrated key components of Blackboard's legacy AngularJS codebase to the "Ultra" frontend using React and Redux. Utilized HTML, CSS, TypeScript, AngularJS, (frontend) and Java (backend).
- · Resolved critical issues including broken REST API endpoints in the Java backend, unexpected client-side popups, and a malfunctioning datetim picker, enhancing system reliability and user experience.
- Conducted feature, REST API, unit, and integration testing with Postman, TestNG, RestAssured, and Jasmine; performed UI testing with Selenium WebDriver. Inspected test results in a Jenkins-Kubernetes server.

Undergraduate Teaching Assistant

Aug 2022 - May 2024

EECS @ South Dakota School of Mines and Technology

Rapid City, South Dakota

- Wrote python scripts that auto-graded over 100 student program submissions at a time.
- · Assisted students with learning Python fundamentals, in addition to working with libraries such as NumPy, Pandas, and Matplotlib.
- · Built a web application for simplifying the grading process and reducing errors associated with manual grading procedure.

PROJECTS

Performance Report Generator

Aug 2024

Amazon

AWS Lambda, SES, S3, Python, Kotlin

- · Developed a Python-based tool to report failure rates and time metrics (average, minimum, maximum) for Blink-Alexa commands after running performance tests.
- Integrated AWS services including Lambda, SES, and S3 to enhance scalability and performance for larger test runs.
- Implemented CI/CD by running performance tests in a pipeline and sending reports to stakeholders on a regular basis.

Auto Grading Tool

Aua 2022

Undergraduate Teaching Assistant - EECS @ SDSM&T

React, JSX, HTML, CSS, Python

- Built a React based web application for organizing student grades, implementing features such as sorting and filtering to improve grading experience for course faculty.
- Reduced grading time for student submissions by roughly 50%, in addition to reducing errors associated with manual grading.
- Setup a local server using **ison-server** library to perform **CRUD** (create, read, update, delete) operations on student data.

South Dakota School of Mines and Technology

Sep 2022 - Dec 2022

C#, ASP.NET, SQL

· Designed and implemented a web application using the ASP.NET MVC framework (C#) that helps recruiters keep a record of students during college career fairs.

Built the user interface and user experience (UI/UX) and implemented features such as user authentication, sorting, and filtering.

EDUCATION

RecruitLab