Russel Tagaca

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Experience

Software Test Engineer

General Motors • Warren, Michigan
03/2022 - Present

- Worked closely with analysts and developers to build out functional/regression test strategies using automation scripts or for business process automations such as for hiring applicants on critical applications including Workday and UKG. Written in Python and Java.
- Created automation systems that downloads web-scraped information, extracts data from the web while using them to perform API calls to other web services. All together- chaining API processes with others to streamline dataflows. Leveraged asynchronous programming and sometimes multithreading to execute tasks concurrently.
- Built Azure Pipelines and Github Actions Workflows to perform scheduled daily builds on automation scripts.
- Integrated Github Actions Workflows with Slack, enabling seamless code execution from the cloud using direct Slack messages to a channel, improving efficiency while minimizing manual efforts.
- Contributed to reducing manual efforts in Workday by creating automation scripts for data creation or feature testing, saving the company at least 40,000 worker hours and over $2 million in labor costs.
- Implemented multithreading and parallel execution in application test strategies, improving resource utilization and test runtime efficiency - resulting in improvements over 100%.
- Enhanced test efficiency by using session-scoped fixtures in pytest to manage expensive or time-consuming operations.

Software Test Engineer

ValueMomentum • Piscataway, New Jersey
09/2019 - 01/2021

- Developed test automation scripts for critical TCS BaNCS applications using Selenium and TestNG.
- Outlined manual test scripts on ADO for various banking and financial modules.
- Performed regression and smoke testing in a monthly basis with a team of 3 developers.

Backend Software Engineer

ScanAvert • Newark, New Jersey
01/2019 - 05/2019

- Implemented app logic on a mobile based solution for a food allergy detection system written in Python.
- Developed RESTful web services using Spring Boot, tested using Postman.

Technology Analyst

PJT Partners • New York, New York
05/2017 - 05/2018

- Designed and built the company's first mobile app for Emergency Preparedness exclusively for the iPhone and an instant messaging bot for Slack.
- Reduced the need to create physical HR related pamphlets, saving HR operating expenses by over $800K.
- Support desk, assisted employees on configuring hardware, software, and other IT related services.

Personal Projects

AI Vision OCR

- Built an optical character recognition project using Microsoft's Azure AI Vision and AI Document Intelligence to read, parse text, and generate meaningful caption from an invoice or receipt image.

- Built another optical character recognition project using Google Cloud Vision AI. Functions the same as the previous OCR project.
- Deployed this project on Azure Kubernetes Service and created a small front end using HTML and Flask as the backend to build an API so I can use the service on the fly, on air.

Simple Kubernetes Login App
- Built a simple frontend React/Vite app that connects to a Flask python backend. The app is built and served using Docker. Traffic coming is load balanced and route handled by Traefik which also acts as a reverse proxy for the app infrastructure and sits in the cluster with the other containers.

Certifications

Microsoft Certified: Azure Fundamentals , Cert# 585J67-E56E8C , Earned on: Jan 2025.

Education

Computer Science

New Jersey Institute of Technology • Newark, New Jersey
08/2019
Studies:
- MATH 112 Calculus II
- PHYS 121 Physics II
- CS 431 Intro Database Systems
- CS 252 Computer Org & Architect
- CS 435 Adv Data Struct-Alg Design

Skills

Agile, Azure Cloud Services, Azure DevOps, C / C# / C++, CI/CD, CSS, Git, HTML, Java, JavaScript, JMeter, Maven, Microsoft Playwright, MySQL, .NET, Python, Selenium, Spring Boot, SQL, Swift, Visual Studio, Load Balancing, React, Azure

Languages

Tagalog, English, Spanish

Interests

Automation, Blockchain technologies, Cloud resource management, Docker, Kubernetes