Russel Tagaca

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908-992-9777

Experience

Software Test Engineer

General Motors • Warren, Michigan
03/2022 - 06/2025

- Developed Python applications to run automated tests in a monthly schedule for apps such as Workday, UKG and GM hosted apps. These were then integrated onto CI/CD pipelines for an automated and continuous build-release-test environment.
- Developed automation scripts on applications for ETL operations using Pandas, REST APIs, and Python or Java.
- Worked closely with analysts and developers to build out test strategies for smoke, functional, regression or validation test automation scripts for critical applications such as Workday and UKG. Written in .NET, Python, Java.
- Guided a team of 5 other Software Engineers to build a data driven testing infrastructure using Microsoft Playwright, Azure DevOps, connected SQL databases.
- 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 test operations into different layers.

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
- Developed a React-based login app integrated with a Flask backend, deployed on an Azure Virtual Machine using Docker. Implemented image upload functionality to Azure Blob Storage. Configured Traefik as a reverse proxy and load balancer within a Docker cluster to manage routing and secure traffic flow across services.

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

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Languages

Tagalog, English, Spanish

Interests

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

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