

# Russel Tagaca

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## Experience

### Software Test Engineer

General Motors • Warren, Michigan

03/2022 - 06/2025

- 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%.
- Developed a Python application to run automated tests in a monthly schedule. Integrated onto CI/CD pipelines for an automated and continuous build-release-test environment.
- 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.

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## 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 login app that connects to a Flask python backend served on an Azure Virtual Machine via Docker. The app takes in an image and saves it to a blob storage. Incoming traffic is load balanced and routes are handled by Traefik which also acts as a reverse proxy for the app infrastructure and sits in the cluster with the other containers.
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## Certifications

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

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## 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
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## 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

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## Interests

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

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