

Jayson Panganiban

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SUMMARY PROFILE

Results-driven Automation and Performance Engineer with 10+ years of delivering scalable test automation and performance testing solutions across banking, insurance, fintech, crypto, travel, startups and retail sectors. Experienced in building tailored test frameworks, performance engineering and CI/CD pipelines. Passionate about innovation, AI-driven solutions, and driving quality outcomes through collaborative client partnerships.

SKILLS

Test Automation

Playwright
Selenium
Cypress
Puppeteer
Cucumber
Robot Framework
Behave
SpecFlow
Gauge IO
WebdriverIO
PyTest
Tosca
HP ALM

Performance Test

LocustIO
K6
JMeter
Gremlin (chaos testing)

Testing Tools

Postman
SoapUI
Swagger
Chrome DevTools

Coding

Python
JavaScript
TypeScript
Ruby

PROFESSIONAL EXPERIENCE

Senior Consultant – Test Analyst

Datacom | Oct 2022 – Present

- Designed and maintained scalable **BDD automation frameworks** using **Ruby and Cucumber** for insurance platforms covering policy, claims, and underwriting workflows.
- Created test coverage for multi-channel document validation (PDF, email, SMS, fax), achieving 100% compliance with regulatory standards.
- Integrated automated test suites into **CI/CD pipelines**, reducing manual QA workload by 60% and enabling faster, more reliable releases.
- Executed backend validation testing using **Postman, SoapUI, and Swagger**, verifying service reliability, data accuracy, and integration consistency.
- Developed reusable test utilities and **modular components**, improving maintainability and accelerating onboarding for new automation efforts.
- Collaborated closely with developers, BAs, and QA teams to implement **shift-left testing** practices, embedding quality gates early in the SDLC and reducing defect leakage.

Software Engineer in Automation

Planit | Mar 2020 – Sep 2022

- Developed automated test suites for banking payment systems using **Playwright** and **Tosca**, improving regression efficiency and maintainability.
- Led **chaos testing** using **Gremlin**, uncovering system weaknesses and enhancing fault tolerance by 30%.
- Conducted **WCAG 2.1 accessibility testing** to ensure compliance and usability across web platforms.
- Built modular UI and API automation integrated into **CI/CD pipelines** (Jenkins), reducing release cycle times by 25%.

Development

FastAPI
ExpressJS
ReactJS
NextJS
TailwindCSS
Jinja2
HTMX
PostgreSQL
MongoDB
SQLite3

Dev Tools

Git
Jenkins
Docker
Unix
AWS
CI/CD

AI & LLM

RAG Assistant
Prompt Engineering
GPT API Integration
OpenAI
Semantic Search
Vector Database

Data Formats

JSON
XML
YAML
Markdown

CERTIFICATIONS

ISTQB CFTL
Automation Specialist
Test Design Specialist

EDUCATION

Bachelor of Science in
Computer Engineering
*Lyceum of the
Philippines University*

Software Development Engineer in Test (SDET)

PDAX | *May 2019 – March 2020*

- Developed comprehensive **end-to-end automation** using Python-based BDD frameworks, significantly increasing test coverage and accelerating release confidence.
- Built reusable test suites for crypto-as-a-service solutions integrating tests into CI/CD pipelines to support rapid deployments.
- Used **TypeScript** and **Playwright** for UI automation and **Python** for API validation and backend service testing
- Conducted **API testing** verifying data integrity, authentication flows, and third-party integrations.
- Implemented **performance and load testing** strategies using **LocustIO** and **K6**, identifying performance bottlenecks and improving overall system throughput by over 50%.
- Leveraged **Docker** and **AWS** environments to simulate production-like scenarios, enabling realistic performance baselines and testing reliability under load.

Test Architect

Carlson Wagonlit Travel (CWT) | *Jun 2015 – May 2019*

- Designed and implemented **test automation frameworks** using **Selenium** and **Robot Framework** for enterprise-scale travel management platforms, supporting both web and thick-client applications.
- Integrated end-to-end automated test suites into **CI/CD pipelines** via **Jenkins**, improving release stability and reducing deployment times.
- Led cross-platform **performance testing** initiatives, identifying latency issues and optimizing system responsiveness
- Developed and maintained test scripts for **API and frontend validations**, resulting in a significant reduction of manual QA cycles.

Quality Engineer

Finastra | *Jul 2011 – Apr 2015*

- Developed **Selenium** and **Robot Framework** test suites for payment and messaging systems.
- Mentored junior testers, improving overall team automation maturity.

Software Engineer

Accenture | *Apr 2010 – Jul 2011*

- Executed automated and manual test cases across client systems.
- Participated in code reviews and cross-functional agile teams to ensure quality deliverables.

PROJECTS & PORTFOLIO

Portfolio: www.jaysonpanganiban.com

Github: www.github.com/jayson-panganiban

FAQ Mate - AI Powered Aussie Car Insurance Chatbot

[View Demo](#)

Technologies: Python, FastAPI, Embeddings, Gradio, Docker

- Developed a **Retrieval-Augmented Generation (RAG)** system to answer real-world insurance FAQs using semantic search with OpenAI embeddings.
- Integrated a lightweight **Gradio interface** for real-time user interaction and hosted the solution using **Docker** for streamlined deployment.

Half Price Grocery – Full-Stack Retail Deals App

[View Site](#)

Technologies: ReactJS, ExpressJS, MongoDB, Playwright, JavaScript

- Built a full-stack web application that aggregates and displays half-price retail specials from major Australian supermarkets.
- Implemented backend scraping logic, API endpoints, and automated **Playwright** test coverage for continuous monitoring and data freshness.

Philippine Zip Code Portal

[Visit Site](#)

Technologies: Python, TypeScript, NextJS, Playwright

- Developed a searchable zip code directory for Philippine regions with server-side APIs using **FastAPI** and a responsive frontend built in **NextJS**.
- Added automated tests using **Playwright** and deployed as a self-contained, SEO-optimized static web app.

Rest in Pytest – API Testing DSL

[View Repo](#)

Technologies: Python, Pytest, HTTPX

- Created a custom **Pytest-based DSL** for concise and expressive API testing, enabling faster test authoring and more readable test output.

Rephrase CLI – Text Rewriting Tool

[View Repo](#)

Technologies: Python, OpenAI API

- Built a command-line tool that leverages the **OpenAI API** for rewording and rephrasing input text based on various tones and levels of formality.