Christian Manna Guimma

SDET | QA Engineer | Manual & Automation Testing | AI/ML Validation

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Professional Summary

I work as a QA Engineer with experience across web, mobile, enterprise, and AI-driven platforms. Over the past four years, I've focused on building solid test coverage, designing automation that saves time, and catching issues early so teams can release with confidence. I've worked with developers, product managers, and DevOps teams to keep quality at the centre of each release. I also serve on the AT*SQA Advisory Board, where I contribute to testing standards and certification improvements.

Key Skills

- **Testing & Quality**: Manual testing, regression testing, system testing, functional testing, smoke tests, end-to-end testing, AI/ML validation, contract testing
- **Automation:** Playwright, Cypress, Python (pytest, unittest), Ghost Inspector
- **Programming:** Python, JavaScript, PHP
- **API Testing:** Postman, REST Assured, SoapUI, PactFlow
- **Performance & Security:** JMeter, LoadRunner, OWASP ZAP, Burp Suite
- **DevOps / CI/CD:** Jenkins, Docker, Terraform, Buildkite
- **Tools:** Git, GitHub, Jira, Confluence, TestRail, Zephyr, Xray
- **Frameworks & Methods:** Agile, Scrum, BDD, TDD, Shift-Left Testing
- **Research Tools:** CARLA (RAS testing), OpenAI Gym, Scikit-learn, TensorFlow (basic), PyTorch (basic)

Personal Technical Project

Working on simulation-based testing of Robotics and Autonomous Systems (RAS) using metaheuristic optimisation. I use techniques like genetic algorithms and simulated annealing to push systems into rare and unexpected situations in CARLA. The goal is to expose weak points in autonomous behaviour, and I enjoy experimenting with different scenario setups to see how the system responds under pressure.

Professional Experience

QA Analyst - Entertainment Partners, London, April 2022 - Present

I work on the quality of the casting, payroll, and production tools used by teams across the entertainment industry. My role covers planning tests, creating automation, running full regression cycles, validating AI-assisted features, and working with engineering teams to keep releases stable.

What I do

- Lead quality assurance efforts for enterprise SaaS casting, payroll, and production platforms.
- Design and implement automated test suites in Python and Playwright, covering regression and core workflows.
- Build, maintain, and execute API tests integrated into CI/CD pipelines to catch defects early and reduce manual effort.
- Partner with engineering and DevOps to integrate automated checks into the Buildkite pipeline.
- Validate AI-assisted features against business rules and expected behaviours.
- Investigate defects, perform root-cause analysis, and collaborate with developers to resolve issues ahead of release.
- Keep documentation and quality reports up to date in Jira and Confluence.

What I've achieved

- Championed and led the migration from Ghost Inspector to Playwright, redesigning regression suites, increasing reliability and maintainability, and aligning automation with modern, code-driven testing practices.
- Increased automated regression coverage across core user journeys from 35% to 82% by introducing modular test components and reusable selector strategies.
- Supported AI-assisted feature validation by creating deterministic evaluation checks and dataset-based scenario validations.
- Reduced API test suite runtime by 70%, from 9 minutes to 40 seconds, by removing the Playwright browser dependency and extending Playwright to improve developer experience for test creation and debugging.
- Strengthened regression stability, reducing the time spent on manual checks.

Sr. Software Tester - Proper QA, Edinburgh (Contract) February 2022 -April
2022

I supported mobile and game testing, running functional and regression tests across
devices and helping teams ship stable builds under tight deadlines.
Highlights

- Ran full feature and regression testing on multiple builds.
- Logged issues clearly in Jira and followed up with developers.
- Gave structured feedback during beta cycles to improve performance and
  stability.

**Sr. Software Test Engineer - Hi-TechPlus, London, March 2021 - February
2022**

I worked on QA for enterprise software, focusing on automation and backend validation.

Highlights

- Built JavaScript automation scripts to expand regression coverage.
- Wrote detailed test cases for UI, backend, and API workflows.
- Collaborated with DevOps to integrate automated tests into CI/CD and speed up
  releases

Education

- **PhD in Robotics and Autonomous Systems – (Uncompleted)**
- **MSc in Computer Science - Anglia Ruskin University, Cambridge 1:1**
- **BSc in Computer Science - Catholic University of Buea, Cameroon 1:1**

Certifications

- ISTQB Technical Test Analyst
- ISTQB Test Automation Engineer
- ISTQB Mobile Application Testing
- ISTQB Performance Testing
- ISTQB Security Testing
- ISTQB Foundation Level
- PMP - Ongoing
- AWS Certified Cloud Practitioner
- AWS Certified Developer Associate
- AWS Solution Architect Associate

Member, AT*SQA Advisory Board of Directors

I contribute to discussions that shape testing standards, review certification frameworks,
and bring practical industry insights to support the future direction of software testing.