

Nguyen Van Sin

Senior QA Engineer

CONTACT

Location

Ho Chi Minh city, Vietnam

Email & Skype

sin.sin27100@gmail.com

LinkedIn: [https://www.linkedin.com/in/sin-](https://www.linkedin.com/in/sin-nguyen-vincent/)

[nguyen-vincent/](https://www.linkedin.com/in/sin-nguyen-vincent/)

Github: <https://github.com/Sinnv2710>

EDUCATION

HCM City University of Foreign

Languages – Information Technology –
HUFLIT

ACHIVEMENTS

- The youngest QA is allocated for best project of Company
- The SmartOSC employee best contribution of the year

I have 7 years of experience in software testing industry. I have worked as Fullstack QA engineer in popular bussiness domain like Ecommerce, Fintech, Warehouse ERP, Healthcare, 3D Animation, Commnication Compliance Platform, etc. Recognized for exceptional organizational skills and a keen eye for detail, particularly in project management and process optimization. Adept at combining manual and automated testing to ensure thorough quality coverage. Experienced in creating AI-powered tools to support testing activities and committed to adopting AI innovations to improve testing processes. Focused on building future-ready testing solutions that integrate human expertise with AI assistance.

SKILLS

Generative AI & LLM Integration

- AI/LLM Tools: Azure OpenAI, Ollama, Langfuse, GenAI frameworks
- Vector Database & RAG Systems: Qdrant, ChromaDB, Embedding & Chunking strategies
- Orchestration & Pipelines: OpenWebUI pipelines/functions, MCP SDK, MCPO SDK
- AI-Enhanced QA Workflows:
 - Automated prompt generation for test cases
 - Story-based test creation with AI assistance
 - Root cause prediction and auto-remediation
 - LLM-powered summarization and report analysis

Automation & AI-Driven Testing

- Test Automation: Cypress, Selenium, Playwright, Puppeteer, WebdriverIO, CodeceptJS, Appium, UiAutomator2
- API Automation: Axios, Fetch, Postman (hands-on scripting and validation)
- Design Patterns: Page Object Model (POM)
- Testing Methodologies: TDD, BDD (Cucumber/Gherkin)
- Scripting & Languages: JavaScript, TypeScript, Python, Bash, Unix Shell Script, AppleScript (macOS), Osascript
- CI/CD & DevOps: Docker, Kubernetes, GitHub Actions, GitLab Runner
- Test Reporting Tools: ReportPortal, Allure, Testomat.io, TestRail, Zephyr
- Device Farm Custom with Android, IOS integration
- Browserless WebSocket
- Adb, xcode shell integration
- OpenCV, Tesseract, Omniparser with GPT decision
- NodeJS server self-built

PROJECT EXPERIENCE

SinA - QA automation assistant with LLMs-powered

Begin 2025 - Now

- Led automation team in researching, defining the roadmap, writing user stories, selecting technologies, and designing architectures to drive project development.
- Developed a custom AI Assistant Agent to optimize QA workflows with analyzing automation pipelines, design testcase, trigger automation pipeline... etc
- Integrated with N8N pipelines using Python to orchestrate automated processes and event-driven flows.
- Connected to a self-hosted MCP server via Node.js for managing AI tools and model context protocols.
- Defined metadata schemas and mapped data pools to vector databases such as ChromaDB and Qdrant, enabling structured data retrieval for AI queries.
- Designed chunking workflows to split complex object data into manageable segments, embedding them into vector databases using locally hosted Ollama models, OpenAI models
- Implemented context window management strategies (chunking, rolling context) to handle token limits when summarizing large documents using LLMs.
- Applied RAG (Retrieval-Augmented Generation) techniques to enhance agent accuracy—supporting insert/update/query workflows with robust pre- and post-processing.
- Built automated pipelines to connect QA data pools via Node.js APIs, enabling dynamic summarization using LLMs.
- Monitored and optimized usage costs of Azure OpenAI APIs through request-level tracking and quota management.
- Integrated ProxyLLM for centralized LLM request routing, logging, and usage analytics across multiple models.
- Testing, defining prompting for Agents
- Improvement , fixing bugs collected from feedback of users

Omniparser Custom - Screen Parsing tool for Pure Vision Based GUI Agent

Begin 2025 - Now

- Customizing backend of Omniparser V2 support for mobile automation testing with Appium by reducing workload of original Omniparser by remove omibox, omniparserserver, florence - lightweight models
- Using LLMs to handling matrix of coordinate response from PaddleOCR and Vision Models
- Expose API NodeJS to integrate with Appium methods in automation framework
- Handling slowly response time from LLMs by caching LLMs , small SQLite database object mapping

PROJECT EXPERIENCE

2022 - Now

Device Farm In House

- Built Device Farm In House integrate with Android via ADB , IOS via XCRUN
- Built API NodeJS server integrate for automation framework , Appium integration
- Using ADB shell scripts, shell scripts to handling backend function of servers
- Handling missing sessions, dropped sessions of Cloud Device Farm
- Migration Appium version 1.x to 2.x with fully support of features

Wechat Mini Program

2022 - Now

- Built with current automation framework with CodeceptJS, Appium
- Handling missing context window pre- and post-switching Wechat and Wechat Mini Program
- Developed automation Features, Scenarios from regression test suites
- Maintain, define new scenarios

iMessage Mac OS Client Simulating - Osascript framework

2024

- Research, defined and build osascript framework from scratch
- Developed custom methods to findElement, checkElement, ... etc
- Built pipeline to deploy on MacOS machine
- Maintain, ensure scripting working for each version of MacOS

AMP Google automation testing pipeline

2022

- Built automation framework with CodeceptJS Playwright framework to verify AMP Google SEO linking when FE deployment
- Applying Report Portal to managing testing result
- Create alert via Google Chat to helping Front End Team debugger
- Built with gitlab pipeline and integrate with deployment pipeline of company

Playwright Automation framework

2022

- Built Playwright Automation framework for QA team
- Applying NPM deployment versioning to manage automation stable code base
- Using gitlab pipeline to build image , trigger with parameters support for cross team, cross environment, specific environments
- Integrating with Report Portal system to show automation testing result pipelines
- Collect, analyzing automation testing result via chart , alert via Google Chat , Discord , Slack

Company Experience

LeapXpert - Senior QA FullStack Engineer

Aug 2022 – Present

- QA engineer working with Scrum team and QA team
- Having responsibility with quality of products
- Supporting, testing hotfix deployments, releases
- Training junior, middle automation QA engineers

Hello Health Group - QA Leader

2022

- Defining Quality Roadmap, Testing strategy, Baseline Test Case for QA team
- Training Fresher, Junior, Middle QA to learning new technologies, automation testing
- Defined, introducing, giving feedback, find solutions with Leadership team to ensure quality of products
- Representing to collect quality feedback and bring improve for products every months
- Handling QA resources with Leadership team, Recruitment team, BO team

Ordinary Folk, NOAH - QA Automation Engineer

2022

- Applied TypeScript, CodeceptJS, Playwright, and Axios to automate complex web applications.
- Integrated automation pipelines with GitHub Actions, Allure reports (via GitHub Pages), and Slack notifications.
- Supported QA teams in converting manual test cases to automation scripts and troubleshooting production defects.
- Built tools for syncing product data from CSV files and conducted team training on JavaScript, Node.js, and automation best practices.

Credify – QA Fullstack Engineer

2020 – 2021

- Worked directly with CEOs and cross-functional teams to improve product quality and delivery processes.
- Led QA efforts across sprint planning, release preparation, and production support.
- Applied Cypress and CodeceptJS for API and functional automation testing across microservices and mobile/web platforms.
- Developed custom plugins for blockchain validation (EOS.io) and webhook testing, and contributed to performance testing with JMeter, K6, and custom SDKs.
- Supported customer configurations, created release documentation, and trained new team members.
- Actively presented QA insights, new technologies, and process improvements to leadership.

Company Experience

SmartOSC - QA Engineer

2018 - 2020

Client Projects: Smartbox (Ireland), CENTRAL – TOPS (Thailand), ASUS Singapore, Sydney Opera House (Australia)

- Worked with global clients to analyze requirements, participate in Agile ceremonies, and deliver high-quality test coverage across multiple platforms.
- Designed, implemented, and maintained both manual and automated testing frameworks using :
 - Selenium
 - Cypress
 - Robot Framework.

Key Projects:

- **Smartbox (Ireland):**
 - Collaborated with global teams during sprint planning, refinement, and retrospectives.
 - Maintained existing automation framework in Java.
 - Built a new Cypress framework for integration and migration testing.
 - Designed and updated test suites regularly to align with product changes.
- **CENTRAL – TOPS Mobile App (Thailand):**
 - Developed UI and functional automation using Robot Framework.
 - Managed regression test suites in TestRail; reported weekly release issues.
- **ASUS Singapore – Ecommerce Platform:**
 - Led test planning and execution (Integration, Functional, UAT); worked onsite in Singapore.
 - Provided training and feedback to developers and clients; ensured Go-Live readiness.
- **Sydney Opera House – Booking System:**
 - Gathered requirements, created test plans, and executed test cycles.
 - Provided end-user support during releases.

GameLoft

2016 - 2017

- Worked closely with the Head Office in France to ensure game quality across multiple builds.
- Executed functional and regression testing for mobile games such as Sniper Fury and Dragon Maniac.
- Participated in open beta performance testing prior to each release.
- Verified bugs, reproduced reported issues, and ensured successful fixes before deployment.
- Followed feature-based checklists and collaborated cross-functionally to validate new builds.