Nigel Bautista
Senior SDET / Software Engineer in Test

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in LinkedIn Profile
GitHub Profile

🎖 Professional Summary

Senior Software Development Engineer in Test (SDET) and Technical Systems Architect with 12+ years' experience designing, engineering, and scaling proprietary automation platforms for high-growth technology companies. Specialised in architecting end-to-end validation infrastructure, CI/CD quality-gate systems, and multi-service integration frameworks that reduce operational risk and accelerate product delivery.

Proven track record as a founding automation architect, delivering business-critical engineering platforms at multiple startups—directly contributing to funding readiness, commercial reliability, and organisational scalability. Recognised by CEOs and CTOs for building high-ROI validation systems that safeguard product releases.

Expertise includes TypeScript/Playwright framework design, GitHub Actions CI/CD integration, AWS cloud infrastructure, and cross-functional engineering leadership. Known for mentoring developers, influencing testability standards, and driving shift-left quality culture across engineering organisations. Positioned as an emerging technical leader with a proven trajectory toward principal-level engineering influence.

🎖 Innovation & Technical Leadership Highlights

Architected Proprietary Enterprise Validation Platform — Natter

Designed and deployed the company-wide automation and release-validation infrastructure, cited by the CEO as mission-critical for mitigating commercial and operational risk. This system enforced automated quality gates across all services and became the core technical safeguard for the organisation's scalability.

Founding Automation Architect — Atlast.co

Built the entire TypeScript/Playwright multi-carrier logistics automation framework from the ground up. This platform validated integrations with 20+ external carrier APIs, eliminating the company's most significant technical risk and directly contributing to funding readiness and commercial reliability (confirmed by CEO and CTO letters).

CI/CD Quality Gate Transformation — Hopin

Engineered the green-build enforcement system and integrated automation across more than 20 engineering squads during hyper-growth. Increased unit-test coverage from 40% to 85%, enabling safe continuous delivery at scale.

Cross-Functional Engineering Leadership

Recognised as a technical leader across engineering squads, mentoring developers on testability, automation, and architectural patterns, and influencing organisational development standards.

‹ › Technical Skills

Engineering & Automation
- ✅ TypeScript, JavaScript
- ✅ Playwright, Cypress, WebdriverIO
- ✅ Node.js, REST API testing

CI/CD & Infrastructure
- ✅ GitHub Actions, CircleCI
- ✅ Docker, AWS Cloud
- ✅ Distributed test execution

Systems Architecture
- ✅ E2E validation platforms
- ✅ Integration testing frameworks
- ✅ Automated release governance

Quality Leadership
- ✅ Shift-left design
- ✅ Scalable test architecture
- ✅ Mentoring & enablement

💼 Professional Experience

Companies House
Senior Software Engineer in Test (SDET)

Aug 2024 - Present

- Architecting a next-generation Playwright TypeScript framework from the ground up, establishing coding standards and best practices adopted across the organisation
- Leading a team of 5 engineers in migrating 500+ legacy Java Cucumber tests to modern Playwright TS, reducing test execution time by 60%
- Implementing mandatory pre-merge gates requiring all PRs to rebase against master and achieve 100% green test suites before approval
- Reduced production defects by 40% through improved CI pipeline stability and comprehensive pre-merge validation

Atlast.co (Part-time Contractor)
Founding Automation Architect

Jan 2024 - Present

- Built the foundational TypeScript/Playwright automation framework validating 20+ carrier integrations from the ground up
- Eliminated a critical business risk related to external API reliability and operational readiness
- Recognised by CTO and CEO as the 'Founding Architect' of the company's validation infrastructure
- Enabled investor confidence by stabilising multi-carrier logistics workflows
- Engineered end-to-end, integration, and API test suites for Albert AI, implementing pre-merge validation pipelines that enforce green builds before any code merges to master

Natter (Tenth Chapter Limited)
Principal Software Engineer in Test (SDET)

Jan 2024 - Aug 2024

- Architected and deployed organisation-wide automated release-validation infrastructure used across all product squads
- Implemented CI/CD quality-gate enforcement, increasing release confidence and stability
- Recognised by CEO for delivering a high-ROI engineering platform that reduced commercial risk
- Promoted to Principal role to lead and mentor a team of 2 SDETs, establishing quality standards from sprint planning through deployment
- Designed and implemented a Playwright/TypeScript framework that reduced regression testing time from 4 hours to 45 minutes

Endeavor Streaming
Senior Software Engineer in Test (SDET)

Feb 2022 - Jan 2024

- Pioneered shift-left transformation, embedding SDETs in product teams from day one of feature development, reducing production defects by 80%
- Built proprietary E2E testing framework with Playwright/TypeScript, achieving 95% test coverage across critical user journeys
- Eliminated 3 staging environments by implementing rigorous pre-merge validation—all tests must pass against rebased master before merge approval
- Reduced release cycle from 2 weeks to continuous deployment through automated quality gates

Hopin
Senior Software Engineer in Test (SDET)

Aug 2020 - Jan 2022

- Scaled automation architecture across 20+ engineering teams during hyper-growth (50 to 1,000+ employees)
- Increased unit test coverage from 40% to 85%, improving platform reliability
- Integrated system-level automation into CI/CD pipelines, enforcing green-build standards
- Partnered with engineering squads to adopt React Testing Library and improve shift-left coverage strategies
- Architected end-to-end automation suite with strict green-build requirements—no PR merged without passing all test layers

Automation Hero
Software Engineer in Test (SDET)

Jan 2020 - Aug 2020

- Built Cypress + Jenkins automation framework, enabling 10x faster front-end regression testing
- Developed JavaScript/Supertest API testing framework integrated into CI pipeline, catching 90% of integration issues pre-merge

Arcadia
Software Engineer in Test (SDET)

Mar 2018 - Jan 2020

- Delivered full-stack testing coverage across web, mobile (iOS/Android), and backend services in Agile CI/CD environment
- Ensured seamless shopping experience for millions of global customers across TopShop, Burton, and Dorothy Perkins brands

Earlier Career

ECS Digital - SDET	Sep 2017 - Feb 2018
HAPARA - SDET	Feb 2016 - Aug 2017
SPARK - SDET	Feb 2015 - Jan 2016
DATACOM - Junior SDET	Mar 2013 - Jan 2015

⚜ Recognition & Leadership

- Identified by multiple CEOs/CTOs as a principal-level SDET architect with organisation-wide impact
- Delivered business-critical engineering platforms at Natter and Atlast.co, documented in leadership recommendation letters
- Served as founding automation architect across multiple startups, influencing engineering culture and delivery standards
- Provided cross-team mentoring and technical guidance to engineering squads, improving automation maturity and testability practices

⚜ Founder & Innovation Roadmap

- Currently developing an early-stage prototype for a new technology startup
- Currently developing a prototype built using Replit, focusing on solving marketplace connectivity problems using automation and systems design principles
- Focused on leveraging automation, systems architecture, and platform engineering expertise to build scalable tech products
- Future plans include contributing automation frameworks, open-source tooling, and engineering knowledge to the UK tech ecosystem

🎓 Education

Bachelor of Science in Information Technology
Informatics International College, Quezon City, Philippines | 2007-2010

High School Diploma
Penn Foster High School, Pennsylvania, USA | 2007