

Lim Zhi Jian

LEAD ENGINEER (INDIVIDUAL CONTRIBUTOR)

Kuala Lumpur, Malaysia · Remote-friendly / hybrid · zhijianqt@gmail.com · linkedin.com/in/zhi-jian-lim-44a8653a/ · https://waroy.online

AI Solution Engineering

PROFESSIONAL SUMMARY

Lead Engineer and individual contributor with a QA background, specializing in AI-assisted engineering, QA platform systems, internal developer tooling, automation infrastructure, and quality data pipelines. Builds backend services, automation frameworks, release gates, and LLM-enabled engineering workflows that make complex delivery work visible, repeatable, and easier for teams to operate. Strongest contribution is taking ambiguous quality problems from process pain to production software, with clear technical guardrails, measurable evidence, and adoption-focused documentation.


788
PRODUCTION BOOKINGS
Slack-native license booking service snapshot, May 2026

36
USERS SERVED
daily production booking workflow across the org

~290
APPIUM COMMITS
primary maintainer signal in the mobile automation framework

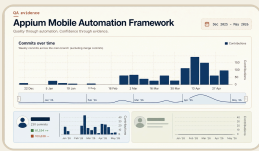
~152
ETL COMMITS
quality scorecard and engineering metrics pipeline

PORTFOLIO EVIDENCE




01 / BACKEND WORKFLOW SYSTEM
Slack-Native License Booking Service
Transactional FastAPI and Slack workflow for scarce QA testing seats, with atomic allocation, retries, lifecycle jobs, and auditability.

FastAPI Slack APIs SQLAlchemy Production workflow



02 / AUTOMATION INFRASTRUCTURE
Appium Mobile Automation Framework
AI-native mobile automation base with one test flow across Android and iOS, platform-dispatched page objects, BrowserStack execution, Allure reporting, and repo guardrails for safe agent contributions.

Python Appium BrowserStack iOS + Android



03 / ENGINEERING DATA PLATFORM
Quality Scorecard ETL
Snowflake and dbt-backed scorecard pipeline that turns GitHub, CI, SonarCloud, and quality signals into leadership-ready visibility.

Snowflake dbt GitHub APIs Scorecards

CORE STRENGTHS

- AI solution engineering and LLM workflow design
- QA platform and automation infrastructure
- Backend services and internal systems
- Mobile, API, contract, and performance test architecture
- Quality data pipelines, scorecards, and release visibility
- CI/CD, GitHub Actions, Docker, Kubernetes, and cloud infrastructure
- Technical direction, documentation, runbooks, and cross-team rollout

TECHNICAL STACK

Languages: Python, TypeScript, JavaScript, Java, SQL, Bash, C#, VBScript, PowerShell

Automation and QA: pytest, Appium, Karate, Selenium, Allure, BrowserStack, Playwright, Pact, k6

AI Engineering: OpenAI APIs, LLM workflows, Cursor rules, MCP, agent documentation, VLM automation experiments

Backend and Internal Systems: FastAPI, Node.js, SQLAlchemy, REST APIs, Slack APIs, Docker

Data and Infrastructure: Snowflake, dbt, AWS S3/ECR/RDS/IAM, Helm, Kubernetes, Terraform, GitHub Actions, GitOps

PROFESSIONAL EXPERIENCE

MoneyLion

Aug 2022 - Present

Lead Engineer / Lead QA Engineer, Individual Contributor

- Build QA platforms and internal engineering systems across backend workflows, automation infrastructure, quality data, release gates, and AI-assisted engineering practice; provide technical direction while remaining hands-on as an individual contributor.
- Designed and shipped a Slack-native license booking service for shared QA testing seats, replacing a spreadsheet-backed workflow with FastAPI, SQLAlchemy, Slack APIs, atomic capacity allocation, idempotent retries, lifecycle jobs, and audit logs. The service has been in daily production use since February 2026, with 788 bookings, 36 users, and 8 active seats at the May 2026 snapshot.
- Primary maintainer of a Python, pytest, and Appium mobile automation framework on BrowserStack, enabling one test flow to run across iOS and Android through platform-dispatched page objects, shared driver fixtures, pre-session Karate data setup, parallel execution, S3-published Allure reports, PR-scoped test selection, and repository guardrails that make contributions from both humans and agents safer in CI and review.
- Contributed to the Quality Scorecard ETL pipeline that normalizes GitHub, SonarCloud, CI, and quality signals into Snowflake and dbt-backed scorecards for service health, adoption tracking, and leadership visibility.

- Drove a Pact contract-testing pilot end to end by standing up a self-hosted Pact Broker on Kubernetes, writing consumer/provider verification flows, wiring CI deploy checks, and documenting the rollout pattern for additional service teams.
- Built an internal test-evidence backup and visualizer toolchain using a Node.js CLI, REST exports, Playwright session reuse for UI-only attachments, S3 sync, and a Next.js explorer published as an internal npx package.
- Contributed to organization-aware AI test generation by authoring SDLC and Test Pyramid rules that shape LLM-generated test cases around source traceability, critical user journeys, reviewability, and local engineering standards.
- Explored VLM-driven mobile automation using natural-language steps against Android flows, documenting accuracy, latency, and adoption tradeoffs for a hybrid AI-plus-locator testing strategy.

MoneyLion

Aug 2019 - Aug 2022

Senior QA Engineer

- Helped build and improve the QA engineering foundation across web, backend, mobile, and data domains, moving work from manual testing toward reusable automation and platform tooling.
- Led and contributed to QA metric dashboard work using Snowflake-backed reporting, helping teams make testability, quality signals, and engineering health easier to review.
- Built reusable CI building blocks for Appium, Karate, k6, Playwright, coverage reporting, Allure publishing, Snowflake uploads, and Slack notifications, reducing duplicated pipeline logic across repositories.
- Maintained and enhanced Karate API automation assets, including reusable feature modules, safer assertion patterns, test-data utilities, and repository conventions for AI-assisted code generation.
- Partnered with QA leadership and engineering teams on process improvement, test infrastructure, and release-quality practices across frontend and backend services.

ResMed

Oct 2017 - Aug 2019

QA Engineer

- Supported quality delivery for cloud-connected medical-device systems, providing senior-level guidance while working across regression testing, automation, and team collaboration.
- Used HP UFT to automate Oracle EBS regression coverage, improving confidence in enterprise workflow stability.
- Helped implement Katalon Studio for Java-based application testing, streamlining automation execution and improving testing efficiency.

Quintiq

Feb 2014 - Sep 2017

Software Quality Engineer

- Developed and maintained automated testing tools for supply-chain planning and optimization software, including HP UFT, HP ALM, test environments, and supporting automation utilities.
- Built tooling to manage automation runs across distributed test sets and integrate HP ALM with CI workflows.
- Used C#, VBScript, PowerShell, Node.js, and JavaScript to connect test tooling with adjacent systems and improve release workflow efficiency.
- Participated across scoping, design, release, and automation phases for multi-stage test projects.

EDUCATION

Asia Pacific University College of Technology & Innovation

Bachelor's Degree, Computer Software Engineering

2009 - 2014

CERTIFICATIONS

- CTFL - ISTQB
- Professional Scrum Master I
- Oracle Certified Associate, Java SE 7 Programmer I
- IBM Certified Database Associate DB2 9 Fundamentals
- Microsoft Specialist: Programming in C#

LANGUAGES

English, Chinese, Bahasa Melayu, Hokkien, Cantonese