

LISTIANANDA APRILIAWAN

Software QA Automation Engineer | Mobile & Web Testing | TypeScript

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SUMMARY

Software Engineer with 6+ years of experience building and validating production-grade web and mobile applications, with hands-on **experience in QA automation, mobile testing, E2E testing**, API validation, CI/CD, production debugging, and release validation. Experienced with TypeScript and JavaScript-based automation using Maestro, Appium, and Playwright, including designing automated regression coverage for critical user journeys, improving application testability, and validating applications across devices and network conditions. Strong engineering background in React Native, Next.js, Node.js, REST APIs, production monitoring, security remediation, and root-cause analysis. Experienced working closely with QA, Product, Backend, DevOps, and Security teams in large-scale production environments serving 1M+ users.

EXPERIENCE

Dicoding Indonesia *Code Reviewer*

Bandung. Remote (Part-time)
March 2026 - Present

- Reviewed JavaScript and TypeScript project submissions from **170+ students** across React frontend and Node.js backend courses, evaluating functional correctness, automated testing, code quality, maintainability, and software engineering best practices.
- Identified bugs, edge cases, inefficient implementations, and architectural issues, providing structured and actionable feedback to improve application reliability and implementation quality.
- Evaluated REST API integrations, application behavior, error handling, and unit/integration testing implementations against project requirements and acceptance criteria.

Airpaz.com *Frontend Engineer*

Jakarta. Onsite (Full-time)
April 2025 - June 2026

- Designed and maintained automated E2E and regression testing for critical mobile booking and payment flows using **Maestro and Appium**, prioritizing high-risk scenarios to maintain strong coverage without significantly increasing CI/CD execution time.
- Added stable **testID** selectors across React Native components to improve element discoverability and automation reliability, while reducing manual regression testing effort by approximately **40% per release**.
- Conducted regression testing before QA/UAT handoff after major feature changes, codebase upgrades, and migrations, validating impacted existing flows across touch interactions, orientation changes, network conditions, recovery scenarios, and Android/iOS device compatibility.
- Used **Firebase Test Lab** for pre-release validation across Android device and OS configurations to identify crashes and compatibility issues before production rollout.
- Performed **API and backend validation** using Burp Suite and HTTP Toolkit by inspecting application traffic and comparing REST API responses against rendered UI data to identify integration and data-consistency issues.

- Monitored production issues using **Sentry**, analyzed crash reports, logs, and user context, then replicated affected scenarios in development or staging environments to identify root causes, validate fixes, and prevent regressions.
- Collaborated with QA, Backend, Product, and Infrastructure teams on test scenarios, regression scope, defect investigation, release readiness, and post-release validation.
- Researched and evaluated **TesterArmy CLI**, an AI-assisted QA agent, for validating critical user flows and exploring agentic test automation workflows; conducted proof-of-concept testing in development environments, but it was not yet integrated into the production CI/CD pipeline.

AIA Singapore
Software Engineer

Singapore. Hybrid (Full-time)
Feb 2023 - April 2025

- Built and maintained automated E2E and regression tests using **Playwright** for critical web application workflows, validating business logic and existing functionality before UAT and production release.
- Conducted regression and release validation across React Native mobile, Next.js, and legacy React (CRA) applications after major feature changes, framework upgrades, and codebase migrations, working closely with Business Analyst, Product, and Backend teams to identify defects and prevent regressions.
- Investigated production incidents and failed test scenarios, performed root-cause analysis, implemented corrective fixes, and documented technical findings and validation results in Jira and Confluence.
- Worked with DevOps and Security teams to validate releases through **CI/CD quality and security gates**, including Snyk and Twistlock scans, where high-severity findings could block production deployment.
- Remediated vulnerabilities identified through security audits and automated scanning, implementing controls such as dependency fixes, input/file validation, encryption, and rate limiting in accordance with internal security requirements and Singapore regulatory standards, following security recommendations and OWASP-aligned practices.
- Managed pre-release and post-release validation for web and mobile applications, including build verification, deployment coordination, and production smoke checks in a highly regulated financial-services environment.
- Monitored production application behavior using **Dynatrace**, analyzing runtime errors, performance signals, and application context to investigate incidents, reproduce affected scenarios, perform root-cause analysis, and validate fixes before release.

PT Purnama Laboratory
Independent Software Contractor

Bekasi. Remote (Part-time)
Oct 2022 - Jan 2023

- Owned end-to-end development and validation of a full-stack application using **React, TypeScript, Node.js, REST APIs, and Firebase**, covering frontend behavior, backend services, data persistence, and integration flows.
- Performed functional and integration testing across UI-to-API workflows, validating request/response handling, authentication, business logic, data persistence, error handling, and edge cases.
- Integrated **Firebase Crashlytics** to monitor production crashes, investigate runtime failures, and improve application stability after release.

Oxy Creative
Software Developer

Jakarta. Remote (Full-time)
Feb 2020 - Nov 2022

- Developed and validated web and mobile applications for banking, enterprise, and government clients, performing functional and integration testing across frontend, backend, and REST API workflows.
- Used **Mocha** for automated testing of application logic and backend functionality, helping validate expected behavior, error handling, and regression-prone scenarios before delivery.
- Worked directly with clients and internal teams to reproduce defects, validate fixes, support UAT, and troubleshoot integration issues for organizations including Bank Syariah Indonesia, BNN, and INAFIS POLRI.

EDUCATION _____

Computer Science, Universitas Bina Darma
Bachelor's Degree

CERTIFICATIONS _____

- [Back-End Developer Expert — Dicoding Indonesia](#)
RESTful API, Node.js, Clean Architecture, Automated Testing, CI/CD, Security, and Scalability
- [React Web Developer Expert — Dicoding Indonesia](#)
React, Redux, State Management, Automated Testing, Performance Optimization, and CI/CD

TECHNICAL SKILLS _____

- **QA Automation & Testing:** Maestro, Appium, Playwright, Mocha, Jest, E2E Testing, Regression Testing, Integration Testing, Manual Testing, Test Scenario Design, Test Case Design
- **Mobile Testing:** Android/iOS Testing, Touch Gestures, Orientation Testing, Network Condition Testing, Reconnect & Recovery Testing, Cross-Device Compatibility, Firebase Test Lab
- **API & Backend Validation:** REST API Testing, Request/Response Validation, Burp Suite, HTTP Toolkit
- **Monitoring & Debugging:** Sentry, Dynatrace, Firebase Crashlytics, Root-Cause Analysis, Defect Reproduction, Production Monitoring
- **CI/CD & Security:** GitHub Actions, GitLab Runner, Jenkins, Snyk, Twistlock, CI/CD Security Gates, Vulnerability Remediation, OWASP-Aligned Practices
- **Programming:** TypeScript, JavaScript, Node.js, React Native, React, Next.js
- **AI-Assisted Testing:** GitHub Copilot, Cursor, TesterArmy CLI
- **Process & Collaboration:** STLC, Agile, Scrum, Jira, Confluence, Git
- **Languages:** Bahasa Indonesia (Native), English (Professional Working Proficiency)