

# Aaron P. Murniadi

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Professional QA Software Engineer with expertise in both manual and automated testing, specializing in comprehensive test automation frameworks and cross-platform application testing. Additional track record in cybersecurity research with two independently discovered vulnerabilities in high-profile systems. Currently transitioning from QA to Developer role while maintaining deep expertise in quality assurance methodologies. Passionate advocate for FOSS principles and open science.

## Work Experience

**NINJA VAN** | Jakarta, Indonesia

December 2021–Present

### **Software Engineer 2, QA**

September 2024–Present

★ Seamlessly integrated into a newly restructured team, demonstrating strong adaptability and collaboration skills. ★ Initiated and planned the migration of Karate projects from Maven to Gradle for improved build performance and maintainability. ★ Appointed as QA Driver App Release Manager, coordinating smoke testing for new driver app releases across three teams to ensure quality and timely delivery. ★ Developed a Multi-scale Template Matching solution using OpenCV to locate UI elements in the screenshots using reference sample images. ★ Transitioning to Developer role through mentoring, training, and skill development.

### **Software Engineer 1, QA**

January 2023–August 2024

★ Served as a *Hybrid Tester*, proficient in both manual and automated testing, with prioritization driven by business objectives. ★ Designed, developed, and maintained automated regression test suites in Java, covering API testing using REST Assured and OkHttp, front-end web testing with Selenium WebDriver, and Android application testing via Appium Flutter Driver. All tests utilized the Cucumber-JVM framework. ★ The primary contributor in integrating Karate DSL into the technology stack used by the QA team. ★ Led the design and implementation of an API to Scenario (ATS) mapping system to establish traceability between automated tests and backend APIs, including the development of a new API service written in Go. ★ Contributed to the integration of OpenAPI-generated API clients into the QA automation framework to improve testing fidelity.

### **Software Tester (Internship)**

December 2021–December 2022

★ Executed manual testing activities on new or existing product features to ensure quality and adherence to requirements. ★ Authored and managed test scenarios in Cucumber Studio. ★ Performed smoke tests in production environment to validate the stability of newly deployed features. ★ Created a Python-based automation project to support manual testers through semi-automation, leveraging the Behave framework.

## Technical Skills

**Programming Languages** Java, Go, Python

**Testing Frameworks** Selenium, REST Assured, OkHttp, Cucumber-JVM, Karate DSL, Behave, Appium

**Development Tools** Maven, Gradle, OpenCV, Git, OpenAPI, Bamboo

**Testing Specialties** API Testing, Web Automation, Mobile Testing

**Methodologies** Agile, Behavior-Driven Development testing

**Other** Cybersecurity Research, FOSS Advocacy, Technical Writing

## *Security Research*

### **Vulnerability Disclosure Program Contributions**

2022–2023

Independently discovered and responsibly disclosed two critical security vulnerabilities affecting national and international web applications, demonstrating strong ethical hacking capabilities and commitment to cybersecurity best practices.

## *Publications*

Murniadi, Aaron Purnomo (2022) “Waktu Intuitif (durasi) sebagai Dasar Adanya Kehendak Bebas Manusia Menurut Henri Bergson.” *Driyarkara Jurnal Filsafat*, 42 (2): 5. pp. 81–91. ISSN 2809-9516

2022

“Ranting Mencari Jalan ke Akar”, Mardiatmadja, SJ, B.S. and Whisnu Bintoro, CICM, Dhaniel (2020) “EKLESIOLOGI Langkah demi Langkah. Sudut-Sudut Hening Ziarah Gereja”. PT Kanisius, Yogyakarta. ISBN 978-979-21-6665-1

2020

## *Education & Achievements*

### **SMAK 1 Penabur Cirebon**

Cirebon, West Java

*Natural Sciences Concentration*

2014–2017

**Academic Competitions:** ★ Finalist in ANFORCOM (Annual Informatics Competition) 2017 at Diponegoro University, Semarang—demonstrating early programming and problem-solving excellence. ★ Semi-finalist at POPKOT (Pekan Olahraga Pelajar Tingkat Kota) 2016 in Table Tennis, showcasing competitive excellence and sportsmanship.

**Leadership & Community Engagement:** ★ Student committee leadership across 6 major school events (2015-2016), including cultural festivals, academic programs, and community outreach initiatives. ★ Participated in “Live In” community immersion program in Muntilan (2016), developing cultural sensitivity and social awareness through direct community engagement.

“It is not the strongest of the species  
that survives, nor the most intelligent;  
it is the one most adaptable to change.”

— Charles Darwin