

Rafiano Rizky Rubiantoro

Senior Backend Software Engineer
Singapore Permanent Resident

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PROFESSIONAL SUMMARY

Senior Backend Software Engineer with 7 years of experience specializing in the design and delivery of high-scale distributed systems and cloud-native microservices. Expertise in **Java**, **Spring Boot**, and **Event-Driven Architectures**, with a strong commitment to **Agile methodologies**, **TDD**, and **Clean Code**. Proven track record in high-end technical consultancy, delivering mission-critical infrastructure for national-scale public sector projects and a global financial institution. A technical leader focused on driving engineering excellence through mentorship, technical discovery, and cross-functional collaboration.

TECHNICAL EXPERTISE

Core Tech: Java, Python (Open to learning any other language)
Engineering: TDD/BDD, Agile, Pair Programming, Clean Architecture
Streaming: Apache Kafka, PostgreSQL, Redis, ClickHouse, StreamSets
Cloud & DevOps: Docker, Kubernetes, CI/CD (Jenkins, GitLab), Prometheus
Consultancy: Stakeholder Management, Mentorship, Technical Design Reviews

PROFESSIONAL EXPERIENCE

Consultant, Developer Thoughtworks
Singapore 07/2026 – Present
Stack: Java.

- **Consultancy:** Specializing in designing and building scalable backend systems. Passionate about leveraging modern cloud infrastructure and distributed systems to solve complex client challenges.

Advanced Software Engineer Zühlke Engineering
Singapore 08/2025 – 07/2026

Stack: Java, PostgreSQL, Kogito, AWS, Kubernetes.

Client Delivery: GovTech Singapore

- **National Infrastructure Modernization:** Architecting cloud-native microservices on AWS for the Professional Registration System (PRS 2.0), unifying fragmented legacy portals into a high-availability platform for the healthcare sector.
- **Architecture Decoupling:** Successfully implemented **Kogito** (Business Automation) to isolate complex regulatory rules from core APIs, enabling modular business rule updates without requiring full-system deployments or risky infrastructure changes.
- **Stakeholder Collaboration:** Acting as a technical bridge between design, product, and government stakeholders to ensure system delivery aligns with mission-critical public sector requirements.

Internal Leadership & Community

- **Engineering Excellence & Mentorship:** Championing **TDD** and clean code practices. Leading the internal technical sharing program to foster a culture of continuous learning and peer mentorship across a multi-vendor global team.

Senior Software Engineer Crédit Agricole CIB (via Coforge)
Singapore 07/2024 – 08/2025

Stack: Java, Spark, Kafka, HBase, JUnit, Cucumber.

- **Financial Event Streaming:** Engineered resilient data ingestion pipelines using **Kafka** and **Spark**, ensuring zero-data-loss for high-throughput billing and reporting event streams for global investment banking.
- **Compliance & Reliability:** Built core components for the bank's global ISO 20022 payments transition, adhering to strict regulatory security and performance standards while maintaining exact-once processing.
- **Test-Driven Development:** Applied rigorous TDD/BDD methodologies using JUnit and Cucumber to ensure absolute reliability in a strictly regulated, high-stakes banking environment.
- **Architectural Refactoring:** Migrated legacy payment processing modules to modern microservices, improving system maintainability and deployment velocity via GitLab CI.

Senior Software Engineer (Promoted 01/2022)
Singapore

Univers
01/2022 – 04/2024

Stack: Java, Spring Boot, Python, Kafka, Redis, ClickHouse, Azure, Docker.

- **End-to-End Product Ownership:** Led a cross-functional team of 7 to architect and deploy the Fault Detection and Diagnostics (FDD) system, converting complex IoT telemetry into actionable energy-saving insights for enterprise dashboards.
- **Legacy Transformation:** Diagnosed critical bottlenecks in monolithic data pipelines and led a successful migration to an **Event-Driven Architecture (EDA)** using Kafka.
- **Operational Integrity & L3 Support:** Established the L1–L3 incident response framework for global property portfolios.
- **Algorithm Implementation:** Primary developer responsible for translating complex data science models into production-ready Java and Python code for real-time anomaly detection.
- **Green Impact:** The IoT systems developed directly contributed to the company's headquarters becoming the first building in Singapore to achieve the BCA Green Mark certification.

Software Engineer
Singapore

Univers
08/2019 – 12/2021

Stack: Java, Spring Boot, PostgreSQL, Docker.

- **API Design:** Developed and maintained secure, high-performance **RESTful APIs** to serve real-time analytics to frontend micro-frontends.
- **Core Integration:** Collaborated with engineering teams to build foundational microservices and data pipelines supporting smart building management systems.

PREVIOUS EXPERIENCE

Software Engineer (Intern)
Jakarta, Indonesia

Line Plus Corporation
02/2019 – 05/2019

- Backend developer for high-traffic seasonal features (LINE Ramadan), scaling Java APIs to handle millions of concurrent users with low latency.

Software Engineer (Part-Time)
Jakarta, Indonesia

PT Bukalapak.com
06/2018 – 12/2018

- Maintained and optimized "Promoted Push" advertising features for a top-tier e-commerce platform using Ruby on Rails.

Software Engineer (Intern)
Jakarta, Indonesia

MAPAN (Gojek Group)
06/2017 – 08/2017

- Prototyped and shipped a logistics recommendation and delivery scheduling system using **Python** to optimize driver fleet routing.

EDUCATION & COMMUNITY

Bachelor of Computer Science
Jakarta, Indonesia

Universitas Indonesia
2015 – 2019

- **Leadership:** Teaching Assistant for Advanced Programming. Mentored 50+ students in Java and OOP principles.
- **Smart Task Allocator (Gojek Partnership):** Built a task allocation system using Python, Flask, Celery, and Redis to solve driver workload distribution challenges.
- **Thesis:** Automated Model Transformation for Software Product Lines (Delta-Oriented Programming).