

# WAHYU FAJRI WIDAGDO

## Software Engineer

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## SUMMARY

Software engineer with six years in banking, building the backend systems behind financial services for Indonesia's underserved communities. Two years developing Java and Spring Boot microservices for customer pre-acquisition at BTPN Syariah, then two years building the test automation framework for those same systems — an unusual combination that shapes how I design for correctness. Also ship my own products: a Go and React point of sale system, and a live career-preparation platform with AI-assisted CV analysis.

## EXPERIENCE

**BTPN Syariah** — Jakarta, Indonesia · Oct 2020 – Present

**Software Quality Assurance (QA Automation)** · Jan 2024 – Present

- Own mobile test automation in Katalon Studio for PREACQ, the bank's field-officer Android application, covering the customer pre-acquisition modules SDA, MU, SV, and SPS
- Designed and built the suite's negative-scenario coverage from scratch — a new initiative validating error handling and field validation, including scroll-aware assertions that Appium's viewport constraints make non-trivial
- Implemented the SQM team's shared automation framework within the PREACQ project: migrated locator-based tests to a Page Object Model with reusable business flows, and adopted the Groovy retry-and-recovery action layer to cut flaky failures
- Integrated the PREACQ suite with TestRail over its REST API, so execution results and screenshot evidence publish automatically after every run
- Verify behaviour at UI, REST API, and SQL Server database level, including offline-first scenarios — draft retention and sync-on-reconnect for field officers working without connectivity
- Analyse defects down to code level, drawing on prior experience as the backend engineer for these same services
- Ran manual release regression across 10 release cycles for PREACQ and Account Maintenance on an Android 10–14 device matrix, tracked in TestRail — including 318 test cases on Android 13 in release cycle 2.9.6
- Continued to contribute Java and Spring Boot code alongside QA responsibilities

**Back End Engineer** · Oct 2021 – Dec 2023

- Built and maintained three of the eight microservices in the customer pre-acquisition domain, using Java and Spring Boot:
  - **preacq-sda** — field surveys mapping pre-prosperous households in a region, used by officers to assess community need
  - **preacq-mu** — monitoring how financed customers use their capital: business type, disbursement usage, income verification, ownership
  - **preacq-sv** — unannounced compliance visits verifying that disbursement reached the customer correctly and field SOPs were followed
- Implemented event-driven integration across banking services with Apache Kafka
- Designed and optimised PostgreSQL and SQL Server schemas and queries
- Worked in an agile squad of ten engineers

**Full Stack Engineer** · Oct 2020 – Oct 2021

- Joined through Shifted (Sharia Intensive Fullstack Engineer Development), BTPN Syariah's management trainee programme for software engineers
- Built internal end-to-end web applications while training across the bank's stack, before specialising into backend engineering

**Nusantech** — Padang, Indonesia

**Full Stack Engineer (Laravel)** · May 2020 – Oct 2020

- Fixed bugs, maintained, and debugged a web-based admission system

**Mentor** · Aug 2019 – Dec 2019

- Mentored participants in a Laravel web development training programme

## PROJECTS

**KALA POS** — Full-stack point of sale system (*personal project*)

Go (Fiber) REST API and an installable React PWA that queues sales offline in IndexedDB and syncs on reconnect. Clean layered architecture with an internal event bus; cancellations and returns reverse both stock and cash flow automatically. Covered by Go unit tests, Vitest, and 28 Playwright end-to-end tests, with a one-command Docker setup. Currently being packaged for sale as source code.

Go · Fiber · GORM · PostgreSQL · React 19 · Vite · Docker

**Meethr** — Career preparation platform · meethr.id (*live*)

Platform connecting jobseekers with HR professionals for interview practice and CV review, with AI-assisted CV analysis (ATS scoring, job matching, section breakdown) as the entry point. Built the product end to end with a co-founder who leads the business side; product and feature decisions made jointly.

Laravel · Livewire · Filament · PostgreSQL · Claude/OpenRouter · QRIS · Google Calendar

## SKILLS

**Languages & Frameworks:** Go, Java, Spring Boot, PHP, Laravel, Groovy, JavaScript, React

**Data & Integration:** PostgreSQL, MySQL, MS SQL Server, Apache Kafka, JDBC, REST APIs, Microservices

**Testing & QA:** Katalon Studio, Appium, TestRail (REST API integration), Postman, Page Object Model, mobile test automation, offline-first testing, API & database verification

**Infrastructure:** Docker, Linux, nginx, VPS deployment, Git

**Practices:** Agile/Scrum, clean architecture, API documentation (Swagger)

## EDUCATION

**Universitas Putra Indonesia "YPTK" Padang** · 2015 – 2020

Bachelor of Computer Science (S.Kom), Informatics Engineering

## LANGUAGES

Indonesian (native) · English (professional working proficiency)