

ALFA RIZI

BACKEND DEVELOPER

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PROFESSIONAL SUMMARY

Backend Developer specializing in Java microservices, enterprise modular monoliths, concurrent database design, and robust asynchronous pipelines. Extensive hands-on experience with Quarkus 3.15 LTS, Spring Boot 3.2, and Spring Cloud Gateway, backed by deep PostgreSQL mastery (PL/pgSQL triggers, views, Flyway migrations, pessimistic row locking). Proficient in double-entry escrow accounting, Redis caching, Python FastAPI, Docker, and GitHub Actions CI/CD.

TECHNICAL SKILLS

Languages: Java 17, Python 3.12, SQL, JavaScript (Node.js), C
Frameworks & Architectures: Quarkus 3.15 LTS, Spring Boot 3.2, Spring Cloud Gateway, Spring Security 6, FastAPI, Express.js
Databases & Persistence: PostgreSQL, Redis 7, PL/pgSQL (Triggers, Views, Functions), Flyway, Drizzle ORM, Hibernate, ChromaDB
Security & Systems Logic: Double-Entry Accounting Ledger, Pessimistic Row Locking, JWT (Rotation), RBAC, BCrypt, Rate Limiting
DevOps & Testing: Docker, Docker Compose, GitHub Actions (CI/CD), ArchUnit, Testcontainers, JUnit 5, Postman, Linux CLI

FEATURED BACKEND PROJECTS

ReLoop — Enterprise Circular-Commerce Backend & Escrow Engine | Java 17, Quarkus 3.15 LTS, PostgreSQL 16, Redis 7, Flyway 2026
Demo: <https://reloop.biz.id> | Code: github.com/a1fariz/ReLoop

- Architected an enterprise modular monolith on Quarkus 3.15 LTS across 25 bounded contexts with ArchUnit boundary verification.
- Engineered balanced double-entry escrow accounting (DR=CR) for platform commissions, seller payouts, and arbitrated disputes.
- Implemented anti-hoarding checkout leases using pessimistic row locking (SELECT ... FOR UPDATE) and PostgreSQL partial unique index.
- Built an asynchronous transactional outbox dispatcher (FOR UPDATE SKIP LOCKED) and Redis catalog cache layer.

ApexGrid — F1 Race Ticket Booking Microservices Backend | Java 17, Spring Boot 3.2, Spring Cloud Gateway, PostgreSQL, Docker 2026
Code: github.com/a1fariz/ApexGrid

- Engineered a distributed 3-service backend (API Gateway, User Service, Race Service) with Spring Cloud Gateway and JWT RBAC filters.
- Guaranteed zero quota race conditions via PostgreSQL PL/pgSQL triggers and automated 30-minute booking cancellation workers.
- Implemented automated PDF ticket generation with embedded QR codes (ZXing & iText) and asynchronous email notification dispatch.

StudyMate AI — Asynchronous RAG Backend Engine | Python 3.12, FastAPI, ChromaDB, Sentence-Transformers, PyMuPDF 2026
Code: github.com/a1fariz/StudyMateAI

- Designed an asynchronous textbook parsing API using FastAPI, PyMuPDF citation extraction, and LangChain splitters.
- Implemented semantic vector similarity search via ChromaDB embeddings and connected Google Gemini 2.0 Flash for grounded content.
- Built token-bucket rate limiting (60 req/min) and configured GitHub Actions CI/CD workflows executing Ruff and Pytest async suites.

Finance Management System (FinanceAll) — Spring Boot MVC | Java 17, Spring Boot 3.2, Spring Security, PostgreSQL, Flyway 2026
Code: github.com/a1fariz/financeall_project_java_alfariz

- Engineered a personal finance application using Spring Boot 3.2, Spring Data JPA, and Flyway version-controlled migrations.
- Configured Spring Security 6 session authentication, BCrypt encryption, and financial calculation engines (4% Rule, debt payoff).

PROFESSIONAL EXPERIENCE

Lead Intern — IT & Business Operations 2025 – Present
PT Resik Cemerlang (Pasim Group) Bandung, Indonesia

- Directed a 5-person intern team managing day-to-day IT support operations, hardware diagnostics, and workstation SLA ticket compliance.
- Enforced OS security patching, software configurations, and antivirus definition updates across corporate laptops.
- Validated technical specifications across thousands of medical device asset entries, ensuring database integrity and audit readiness.

EDUCATION & TRAINING

Universitas Nasional PASIM Expected May 2027
Associate Degree in Informatics Management (D3) — GPA: 3.6 / 4.0 Bandung, Indonesia

- PUB Intensive Technical Scholarship (2024 – Present): Logic & C, Data Structures, Relational Databases, Advanced Java Development, and React Development.

CERTIFICATIONS & CREDENTIALS

Python for Everybody Specialization — University of Michigan (2026)
Certified Entry-Level Python Programmer (PCEP) — Python Institute (2025)

Professional English Communication Skills — Arizona State University (2026)

Programming for Data Science with Python — HarvardX (2025)
Introduction to Cloud Computing — IBM (2026)

Cybersecurity Fundamentals — Rochester Institute of Technology (RIT) (2025)