

ALFA RIZI

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SUMMARY

Results-driven Backend Developer and Software Engineer with hands-on experience building production-grade web applications using Java Spring Boot, React, and PostgreSQL. Designed and deployed microservices architectures with JWT authentication, role-based access control (RBAC), and CI/CD pipelines. Experienced in AI/LLM integration (RAG pipelines, Google Gemini) and team leadership in live IT operations. Open to full-time, contract, or remote opportunities.

TECHNICAL SKILLS

- **Languages:** Java, Python, JavaScript, C, C++, SQL
- **Backend:** Spring Boot, Spring Security, Spring Cloud Gateway, Django, Express.js, RESTful APIs, Microservices Architecture
- **Frontend:** React.js (18/19), HTML5, CSS3, TailwindCSS, Bootstrap, Thymeleaf
- **Databases:** PostgreSQL, Supabase, ChromaDB, Relational Schema Design, Drizzle ORM
- **AI / ML:** LangChain, Google Gemini API, RAG Pipelines, Sentence-Transformers, LLM Integration
- **DevOps:** Docker, Docker Compose, GitHub Actions (CI/CD), Git, Maven
- **Security:** JWT Authentication, BCrypt, RBAC, Firebase Auth, Spring Security
- **Concepts:** OOP, Design Patterns, MVC, RESTful API Design, Microservices, Agile
- **Languages:** Indonesian — Native | English — Professional Working
- **Soft Skills:** Team Leadership, Problem Solving, Effective Communication, Adaptability, Cross-functional Collaboration

TECHNICAL PROJECTS

ApexGrid — F1 Race Ticket Booking Platform

In Deployment

[GitHub](#)

Tech Stack: Java 17 · Spring Boot 3.2 · Spring Cloud Gateway · React 18 · PostgreSQL · JWT · Docker

- Built a production-ready microservices application with three independent Spring Boot services (API Gateway, User Service, Race Service) orchestrated via Spring Cloud Gateway.
- Implemented JWT authentication with role-based access control (USER / ADMIN) and token validation shared across all services.
- Engineered real-time quota management using PostgreSQL triggers, with a 30-minute auto-expiry scheduler.
- Built a full Admin Panel with CRUD operations and an analytics dashboard via database views, plus Swagger API documentation.
- Developed a premium React 18 frontend with glassmorphism UI.

StudyMate AI — Intelligent RAG-Based Study Assistant

In Deployment

[GitHub](#)

Tech Stack: Python · LangChain · ChromaDB · Gemini 2.0 Flash · Docker · GitHub Actions

- Built a high-performance asynchronous RAG (Retrieval-Augmented Generation) pipeline for processing textbook PDFs and generating personalized study content.
- Built a semantic search index via ChromaDB & sentence-transformers, and integrated Google Gemini 2.0 Flash for automated summaries, quizzes, 3D flip flashcards, and dynamic study plans.
- Implemented page-specific citations via PyMuPDF, a rate limiter (60 req/min), and JWT authentication with bcrypt.
- Containerised with Docker Compose and configured CI/CD via GitHub Actions.

Finance Feasibility — AI-Powered Investment Analysis Platform

Completed

[GitHub](#) · [Live Demo](#)

Tech Stack: React 19 · Node.js · Express · PostgreSQL · Firebase Auth · Gemini AI

- Built a full-stack AI-powered web application for conducting financial feasibility studies.
- Automatically calculates critical investment metrics (NPV, IRR, ROI, Payback Period) and integrates Gemini AI for professional strategic insights.

- Implemented secure Firebase authentication, PDF export, and a Supabase PostgreSQL database managed via Drizzle ORM.

Finance Management System

Completed

[GitHub](#)

Tech Stack: Java · Spring Boot · Spring Security · Thymeleaf · PostgreSQL

- Built a full-stack finance web application with multi-role authentication (BCrypt + Spring Security), complete CRUD operations, and a real-time financial dashboard.
- Designed a normalized PostgreSQL schema and an MVC backend with clean REST API endpoints.

Universe Interactive Website

Completed

[GitHub](#) · [Live Demo](#)

Tech Stack: HTML5 · CSS3 · JavaScript · Astronomy API

- Built a space-themed interactive website with scroll-triggered animations, live astronomy data via REST API integration, and a persistent dark/light mode toggle.

ALPAY — Console-Based E-Wallet System

Completed

[GitHub](#)

Tech Stack: C · File Handling (.txt) · RBAC · CLI

- Developed a terminal-based e-wallet application in C with a two-role RBAC system (Admin & User), completed within 10 days without external database dependencies.
- Implemented core digital wallet transaction flows (balance transfer, transaction history, top-up, fund withdrawal, and account management) using file handling (.txt).

PROFESSIONAL EXPERIENCE

Lead Intern — IT & Business Operations

2025 – Present

PT Resik Cemerlang (Pasim Group)

- Directed a 5-person intern team in live IT operations, ensuring SLA compliance and smooth daily workflows.
- Managed SLA ticket handling and weekly laptop maintenance including security patching and antivirus updates.
- Quality-checked thousands of medical device specifications for data accuracy and compliance.
- Delivered weekly operational reports and analytics to senior management.

Lead Intern — IT Hardware

2024

SMP Negeri 2 Batujajar

- Managed the full hardware maintenance cycle: fault diagnosis, component repair, and printer servicing.
- Established a hardware inventory & maintenance log system, improving asset tracking.
- Reduced repeat-fault response time significantly through systematic troubleshooting processes.

EDUCATION

Associate Degree in Informatics Management (D3)

Sept 2024 – May 2027
(expected)

Universitas Nasional PASIM, Bandung · GPA: 3.6 / 4.0

NON-FORMAL EDUCATION

Programming Training — PUB (Pemberdayaan Umat Berkelanjutan)

2024 – Present

Universitas Nasional PASIM Bandung

- Logic & Basic Programming (C Language) — Sep 2024 – Jan 2025
- Data Structures & Databases — Jan 2025 – Jun 2025
- Web Programming (HTML, CSS & JavaScript) — Jun 2025 – Aug 2025
- Java Fundamental — Aug 2025 – Jan 2026
- Git & GitHub — Jan 2026 – Feb 2026
- Java Advanced — Feb 2026 – 16 Jun 2026

ORGANIZATIONS & COMMITTEES

Academic Staff — HIMAMI

2024 – Present

Informatics Management Student Association, Universitas Nasional PASIM Bandung

- Coordinated academic development programs and programming skill enhancement initiatives for Informatics Management students.
- Organized peer-to-peer study sessions, coding tutorials, and tech discussions to support the academic curriculum.
- Collaborated with other divisions to ensure the successful execution of all student association work programs.

PKKMB Committee 2025 — Master of Ceremony (MC)

2025

Universitas Nasional PASIM Bandung

- Served as the main Master of Ceremony (MC), hosting and guiding the opening ceremonies and full sequence of PKKMB 2025 events.
- Drafted cue cards and coordinated closely with the event organizer division to ensure flawless execution of the rundown.
- Managed stage dynamics and maintained high audience engagement for hundreds of incoming freshmen throughout the event.

CERTIFICATIONS

Python for Everybody Specialization — University of Michigan	2026
Programming for Data Science — HarvardX	2025
Certified Entry-Level Python Programmer — HarvardX	2025
Introduction to Cloud Computing — IBM	2026
English Communication Skill — Arizona State University	2026
Cybersecurity Fundamentals — RIT	2025
Introduction to Cybersecurity — edX	2025

AVAILABILITY

Available Immediately · Open to Remote / Jakarta / Bandung · Full-time / Contract / Part-time