

# OKTAVIAN AJI TYAS AZIS

Software Engineer | Backend Developer | Backend Engineer | Fullstack Developer  
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Backend Engineer with 3+ years of experience designing and modernizing enterprise-scale systems. Proven track record in building centralized authentication platforms, workflow engines, and high-throughput backend services across heterogeneous environments. Strong expertise in Python, distributed systems, message-driven architectures (RabbitMQ), asynchronous processing (Celery, Airflow), and relational databases (Oracle, PostgreSQL). Experienced in system refactoring, performance optimization, and translating complex business workflows into scalable backend solutions. Comfortable working in cross-functional teams and mentoring junior engineers to deliver production-ready code.

## EDUCATION

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### Pamulang University

Aug 2022

Bachelor of Information of Technology

Cumulative GPA: 3.52/4.0

## CERTIFICATION

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### Relevant Certifications

- **Apache Airflow 3 Fundamentals** - Astronomer
- **Advanced Go Programming: Data Structures, Code Architecture, and Testing** - LinkedIn
- **DevOps Foundation** - LinkedIn
- **Learning the OWASP Top 10** - LinkedIn

### Other Technical Certifications

- **Software Developer International Internship Training** - Glints X Kampus Merdeka
- **Javascript Algorithms and Data Structure** - freeCodeCamp
- **Back End Development and APIs** - freeCodeCamp

### Language

- **EF SET English Certificate 61/100 (C1 Advanced)** - English First

## PROFESSIONAL EXPERIENCE

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### PT SIGMA CIPTA CARAKA (Telkomsigma)

Nov 2022 - Present

Tangerang, Indonesia

#### **Backend Developer**

- Designed and implemented backend services over highly relational, domain-rich databases, supporting approval-driven workflows and ensuring transactional consistency under concurrent access.
- Optimized transactional workflows and database access patterns in critical approval systems, reducing end-to-end processing time by 50% while maintaining correctness.
- Diagnosed and resolved performance bottlenecks in critical APIs by refactoring inefficient queries, improving indexing strategies, and introducing asynchronous processing using Celery.
- Redesigned synchronous workflows into background job pipelines, improving system throughput and resilience under load.
- Integrated internal backend systems with external enterprise services (Microsoft SharePoint) via REST APIs, ensuring data integrity and traceability.
- Collaborated on designing an internal application hub enabling centralized login and logout across multiple applications, and implemented distributed session and token revocation using FastAPI and RabbitMQ.
- Mentored junior engineers and interns on API design standards, endpoint structuring, and OpenAPI-based documentation, improving API consistency and frontend integration velocity.

### RAVENRY

Sep 2021 - Feb 2022

Full Stack Developer Intern

- Contributed to a major UI revamp in coordination with backend API updates.
- Researched and developed a pub/sub integration solution across internal services.
- Automated QA workflows using **Cypress**, reducing regression bugs and manual testing.
- Participated in sprint planning and retrospectives to enhance team velocity and quality.

## HIGHLIGHT PROJECTS

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### **Application Hub — Centralized SSO & Identity Provider**

- Designed and implemented a centralized login/logout mechanism across multiple internal applications using ticket-based coordination.
- Built an asynchronous session and token revocation service (FastAPI + RabbitMQ) to ensure consistent logout and prevent stale sessions.

### **Digipactum — Enterprise Contract Lifecycle Management**

- Contributed the backend development of an internal application to digitize and streamline the legal contract approval process. Built with Python Django and Oracle SQL, the system handled complex approval flows and file uploads.
- Designed asynchronous orchestration (Celery, Redis) and a hybrid data model (Oracle + MongoDB) to support transactional integrity and flexible document metadata.

### **Peppers — Resource Allocation & Performance Optimization**

- Migrated legacy schedulers to Apache Airflow, significantly improving observability, retryability, and operational stability.
- Re-architected a monolithic API into decoupled endpoints, reducing dashboard response time from ~8s to ~1.2s.

### **Mango — HRIS Approval & Verification Engine**

- Designed and implemented approval-driven change request workflows for sensitive employee data, ensuring transactional consistency across systems.
- Built domain-specific handlers to safely propagate approved data and verification files between services, with audit logging and traceability.

### **Employee Self Service (ESS) Platform**

- Mentored backend intern on API design best practices, including endpoint structure, naming conventions, and response contracts and standardization projects structure, code, and git workflows.
- Guided API strategy decisions (ex: single vs multiple endpoints) based on feature complexity and frontend consumption patterns and standardized API documentation using OpenAPI / Swagger.

## KEY COMPETENCIES

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- **Languages:** Python (Django, FastAPI, Flask), Node.js (Express), Go (Echo, Fiber)
- **Database:** PostgreSQL, Oracle SQL, Redis
- **API:** RESTful API Design, Postman, Swagger, secure API practices, third-party service integration
- **Performance Optimization:** Query optimization, indexing, asynchronous processing (Celery, RabbitMQ)
- **Frontend Stack (for fullstack):** Vue/Nuxt, React/Next, TailwindCSS, Webpack/Vite, basic Redux/Vuex
- **DevOps & CI/CD:** Git, GitLab CI/CD, Docker, Jenkins, Apache Airflow, Rancher, Bash scripting
- **Testing:** Cypress, Unit Testing, Integration Testing
- **Security:** OWASP Top 10 awareness, authentication/authorization patterns
- **Data Engineering (learning):** ETL pipeline concepts, Apache Airflow DAGs, batch data processing, SQL analytics
- **Documentation:** API references, system diagrams, handover guides, technical specs
- **Soft Skills:** Cross-functional collaboration, mentoring, onboarding support, documentation, knowledge transfer