

# OKTAVIAN AJI TYAS AZIS

Software Engineer | Backend Developer | Full Stack Developer

Palmerah, Jakarta Barat | +62 896-4337-1072 | oktavian.aji18@gmail.com | linkedin.com/oktavian-aji-3a43b0216 |  
github.com/iyans018 | medium.com/@oktavian.aji18

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Versatile Software Engineer with 3+ years of experience delivering end-to-end web solutions, combining strong backend expertise with practical frontend capabilities. Currently working as a Backend Developer building enterprise-grade internal systems, while also taking on fullstack freelance projects involving UI integration, API development, and deployment workflows.

Core strengths include designing scalable APIs, optimizing relational databases, and solving architectural bottlenecks in complex systems. Outside of backend work, I actively upskill in data engineering (ETL pipelines, Apache Airflow), Go programming, and advanced system design to deepen my ability to build performant and data-intensive applications.

Known for translating business logic into clean, maintainable systems and bridging the gap between backend infrastructure and user-facing functionality. Passionate about building robust software that is reliable, testable, and adaptable across domains.

## 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

#### **Senior Back End Developer**

- Designed and developed a legal contract approval system, reducing processing time by 50% through backend workflow optimization and database indexing improvements.
- Built a centralized partner data management application to unify sales-related information across departments, improving data accuracy and sales team productivity.
- Contributed to technical documentation and internal knowledge transfer, ensuring maintainability and smooth team handover.
- Enhanced performance of critical APIs in a leave request approval module by refactoring inefficient queries and optimizing backend logic, leading to improved response time and smoother user experience.
- Designed and implemented seamless file integration between internal backend systems and Microsoft SharePoint using REST APIs, enhancing operational efficiency and reducing file duplication.

- Diagnosed performance bottlenecks in a critical POST API, then redesigned the workflow using Celery to offload heavy operations asynchronously, resulting in faster response time and higher system throughput.

## RAVENRY

Full Stack Developer Intern

Sep 2021 - Feb 2022

- 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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### Legal Contract Approval System

- 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.
- Reduced processing time by 50% by optimizing backend logic and database queries. Integrated with Microsoft SharePoint to centralize document storage and improve retrievability across departments.

### Partner Data Management System

- Developed a backend application for centralizing and syncing partner data used by sales and operations
- Built scalable REST APIs and modular service layers to improve maintainability. Resulted in improved cross-team productivity and reduced data duplication.

### Mobile Timesheet – Internal Activity & Leave Tracking System

- Optimized backend of company-wide leave/activity logging system.
- Created **Airflow DAGs** to automate reporting and background data sync.

### ModuCommerce

- Built an experimental e-commerce backend system using microservices and RabbitMQ (pub-sub).
- Demonstrated principles of event-driven architecture, fault tolerance, and service boundaries.

### SIE – Extracurricular Collaboration Information System

- Developed a web-based information system for SMK Wiyata Satya to manage and coordinate extracurricular activities between multiple student organizations.
- The system streamlined communication, improved activity tracking, and centralized documentation.

## 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