

AKBAR WIJAYA

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PROFESSIONAL SUMMARY

Undergraduate Informatics student with a strong focus on Backend Development and API driven systems. Experienced in building RESTful applications using Node.js, Express.js, Laravel, and modern databases such as PostgreSQL and MongoDB. Familiar with authentication JWT, clean architecture, and collaborative development using Git. Proven ability to deliver scalable backend solutions through academic, organizational, and competitive projects.

EDUCATION

DIGITAL TECHNOLOGY UNIVERSITY OF INDONESIA

Bachelor of Informatics

Yogyakarta

Sep 2023 - Present

Cumulative GPA: 3.77/4.00

Relevant Coursework: Algorithms & Data Structures, Object Oriented Programming, Big Data, Software Engineering, Operating Systems, Distributed Systems, Database Systems, Artificial Intelligence

PROJECT EXPERIENCE

Blog REST API

Yogyakarta

Sep 2025

- Developed a modular RESTful API using Node.js, Express.js, and MongoDB.
- Implemented JWT-based authentication, role-based access, and CRUD operations for users, posts, categories, and comments.
- Applied clean folder structure and middleware-based validation to improve maintainability.

POINT OF SALE (POS) API

Yogyakarta

Dec 2025

- Designed and developed a RESTful POS API to manage products, categories, transactions, and multi-role users (Admin, Owner, Cashier).
- Implemented JWT based authentication and role based authorization, ensuring secure and controlled business operations.
- Integrated PostgreSQL with optimized relational schema, applying clean architecture, input validation, and robust error handling.

HACKATHON PROJECT – BACKSTAGE PLUGINS

Yogyakarta

Dec 2025

- Built backend logic for a plugin enabling developers to submit URLs or CSV files for automated analysis.
- Designed and documented API specifications for a dynamic site generator, enabling seamless integration between backend services and developer-facing tools.
- Achieved 1st Place at Refactory Hackathon x UKDW

ACADEMIC EXPERIENCE

ASSISTANT LECTURER - ADVANCED ALGORITHMS & PROGRAMMING

Feb 2025

- Assisted in teaching advanced Java programming topics including recursion, sorting, searching, data structures, and algorithmic problem solving.
- Supervised laboratory sessions and evaluated student practical reports.
- Guided students in applying algorithmic thinking to real-world programming problems.

ASSISTANT LECTURER - OBJECT ORIENTED PROGRAMMING

Sep 2025

- Assisted in teaching Object Oriented Programming concepts including encapsulation, inheritance, polymorphism, abstraction, and SOLID principles using Java.
- Guided students in designing and implementing modular, maintainable, and reusable code following OOP best practices.
- Reviewed and assessed OOP-based project implementations and lab assignments.

ASSISTANT LECTURER - DISTRIBUTED & DECENTRALIZED SYSTEMS

Sep 2025

- Assisted in teaching concepts of distributed and decentralized systems, including scalability, service communication, and system architecture.

- Guided students in designing application architectures deployed on AWS EC2, covering instance configuration, basic networking, and deployment workflows.
- Supervised hands-on labs focused on backend services and cloud-based application deployment.

ADDITIONAL EXPERIENCE

UNIT KEGIATAN MAHASISWA INFORMATIKA & KOMPUTER

Yogyakarta

President / Chairman

Aug 2024 - Aug 2025

- Led and managed organizational programs including technical competitions, seminars, and member development initiatives.
- Initiated and mentored backend-focused study club sessions, covering backend fundamentals, API development, and best practices.
- Coordinated and supervised 80+ active members, ensuring effective execution through structured communication and task delegation.

Research Assistant – Proyek BI SINTAKU

Yogyakarta

Member

Aug 2025 – Dec 2025

- Conducted research and data analysis on 1,000+ MSMEs (UMKM) to support the development of a Business Intelligence platform for local government decision-making.
- Performed web crawling on e-commerce platforms, followed by data cleaning, preprocessing, and transformation to ensure data quality and usability.
- Processed and analyzed datasets to generate structured inputs for BI dashboards and analytical workflows.

SKILLS

Programming Languages: Java, JavaScript, TypeScript, PHP, Python

Frameworks: Express.js, Laravel, Vue.js, Next.js

Databases: PostgreSQL, MongoDB, MySQL

Tools & Platforms: Git, Docker, Postman, Supabase, Visual Studio Code, AWS EC2

Soft Skills: Problem Solving, Public Speaking, Teamwork, Time Management

Languages: Indonesian (Native), English (Basic)

Certifications:

- Learn the Basics of Web Programming - Dicoding
- Learn Back-End for Beginners with JavaScript - Dicoding
- Learn the Basics of Cloud and Gen AI on AWS - Dicoding