

Sandy Budi Wirawan

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SUMMARY

Hello, I am Sandy Budi Wirawan, a Computer Science graduate from Pakuan University (GPA 3.61/4.00) with hands-on experience across Backend Development, Cloud Computing, and Enterprise Systems. I have contributed to production-level systems at Telkom Corporate University Center, including building xAPI-compliant Learning Record Store (LRS) functions, developing CMS features, and handling data migration.

My experience includes various projects using programming languages such as Python, PHP, Golang, and JavaScript, along with frameworks and technologies such as Express, Bootstrap, Tailwind, React Native, Laravel, Flask, Node.js, MySQL and PostgreSQL.

I am also experienced in DevOps, specializing in containerizing applications for streamlined development, deployment, and scalability, using technologies such as Docker Engine & Docker Compose.

SKILLS

- Effective leadership, team coordination, cross-functional collaboration, and clear communication.
- Building and deploying containerized applications using Docker with CI/CD exposure through GitHub Actions and Jenkins.
- Developing full-stack applications using Python, PHP, and JavaScript.
- Backend development using ORM, rate limiting, JWT authentication, CORS, pagination, and eager loading relationships.
- Understanding of HTTP/HTTPS, REST APIs, and web servers such as Apache and Nginx.
- Proficiency in Golang, JavaScript, Python, PHP, HTML, and CSS.
- API testing, validation, and troubleshooting using Postman.
- Familiar with Linux, PostgreSQL, MySQL, Git, Google Cloud Platform, Docker Compose, REST APIs, and basic system troubleshooting.

EXPERIENCES

12/2025 – 06/2026

Fullstack Developer, Telkom Corporate University Center (TCUC) | Contract Kemnaker (Batch III)

- Built xAPI-compliant PostgreSQL LRS functions for Hyper Personalized Learning (HPL) across Course, Classroom, Live Event, Certificate, Badge, and Feedback features.
- Processed over 11 million rows of data in the staging database by creating efficient function queries from SQL scripts to support end-to-end xAPI synchronization.
- Developed and maintained LRS Services & Scheduler Services to ensure stable daily data fetch automation.
- Developed the ShortenLink feature on MyDigiLean CMS and assisted in FlippingBook data migration to v2.
- Delivered backend reporting pipelines transforming operational data into business insights for Telkom General Affair (GA).

08/2021 – Present

Branch Head & Instructor Trainer, Kateda Matahari Indonesia | Self Employed

- Managed daily branch operations including staff coordination, scheduling, and facility maintenance.
- Coached and mentored students with structured feedback, goal setting, and personal development programs.
- Organized martial arts competitions and public demonstrations to strengthen community engagement.

09/2025 – 10/2025	Odoo Developer , Solvera Indonesia Internship - Customized and deployed Odoo across local, Docker, and Odoo.sh environments for business needs. - Built custom modules including models, views, reports, and controllers using Python and XML for On The Job Training (OJT) Features. - Designed QWeb reports and integrated external APIs (JSON-RPC/REST) with unit testing and debugging.
10/2024 – 06/2025	Full Stack Developer , Surya Cipta Estetika Mandiri Internship - Architected scalable cloud infrastructure on Google Cloud Platform using Dokploy (PaaS). - Built and deployed ERP backend REST APIs with Laravel, Flask, TensorFlow, and PHP Filament. - Managed end-to-end CI/CD deployment pipelines frontend and backend.
01/2024 – 06/2024	Cloud Engineer, Back-End and UI & UX Designer , Bangkit led by Google, Goto, and Traveloka Capstone Project Internship - Designed cloud architecture and deployed backend REST APIs via Cloud Run and Google Compute Engine. - Monitored and optimized cloud resource utilization to ensure performance and cost efficiency. - Developed backend services with Express.js and produced UI/UX wireframes and interactive prototypes.
10/2023 – 12/2023	Cloud Computing , Bangkit led by Google, Goto, and Traveloka Apprenticeship - Deployed a Machine Learning model on GCP using Flask and Cloud Run with Docker containerization. - Built RESTful API endpoints in Python Flask and JavaScript Express.js for a mobile application. - Integrated cloud-based ML inference APIs into an Android mobile application end-to-end.
07/2022 – 09/2022	Web Developer , Digitalent Scholarship (Kominfo) Internship - Developed a PHP-based Student Data Collection application with structured and efficient codebase. - Implemented responsive UI using Bootstrap following clean code and industry best practices. - Executed and tested application features across text-based, graphical, and multimedia environments.

PROJECTS

Scheduler (myDigiLearn)	An essential Go-based background worker service that handles all task execution automation (cron jobs) on the myDigiLearn platform. Tech Stack: Go (v1.25+), Apache Kafka, PostgreSQL, and MongoDB. Data Pipeline & LRS Execution Retrieves and synchronizes massive amounts of learning activity data into LRS format (JSONB), and processes message queues via Kafka.
Learning Record Store (LRS) - myDigiLearn	The attached project is currently still the framework's default boilerplate. Functionally: Technology Stack: Uses NestJS (Node.js/TypeScript). Serves as the foundation for a progressive backend (API) service to process Learning Record data.
Reporting Tools (Telkom GA)	An internal analytics application designed to accelerate management decision-making by transforming operational data into business insights. Technology Stack: Laravel 12 (PHP 8.2+), React 19, Inertia.js, and MongoDB. - Analytical visualization of DAU (Daily Active Users) and MAU (Monthly Active Users) trends. - Dynamic filter panel based on company name, platform type, time range, and user type. - Standardized report export to Excel (.xlsx) format for management-level review needs.

SewaIn Rental Costume Marketplace	Application for costume rental and costume rental market services. Leveraged cost- effective cloud infrastructure and Android Kotlin for optimal, scalable, and user- friendly performance. Part of Bangkit Academy 2023 Batch 2 Capstone Project Product-Based. - Stack used: Express.js, TensorFlow, Docker, Flask, Kotlin, Github Action, Google Cloud Platform (GCP), Jenkins and Figma for Prototyping. - SewaIN App Repository - Prototype & Design App
Enterprise Resoruce Planning (ERP)	Web based for integrate and manage various business processes within a company or organization. - Stack used: Laravel, Flask & Filament Framework, Docker, Tensorflow, Figma for prototyping. - ERP App Repository - REST API Prediction Repository
Morningstar Library Landing Page	Designed and built a static website for the mobile, desktop and web library system to facilitate access to the collection and efficient information retrieval. - Stack used : Figma, Laravel. - Morningstar Library App - Prototype & Design App
Student Data Collection	Native PHP-based Student Data Collection Application for ease and flexibility in managing student data. - Stack used : PHP, Bootstrap. - Student Data Collection App

EDUCATION

Pakuan University 2021 - 2025	Bachelor of Computer Science Learning fundamentals of Informatics and Computer Science. • Basic Computer Programming (40%). • Advanced Computer Programming (30%). • Data Science (30%).
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Transcript: Transcript of grades

Publication: My Journal

CERTIFICATION AND ACHIEVEMENT

- **(2023) Bangkit Academy (Cloud Computing Learning Path) – Graduates** Accomplished the Bangkit Academy Cloud Computing Learning Path. This intensive bootcamp, supported by industry giants Google, GoTo, Traveloka, and Dicoding, equips students with essential skills and coveted tech certifications. The Bangkit program offers specialized tracks in machine learning, mobile development, and cloud computing.

My Cloud Computing Certificate

- **Achievement:**
This achievement reflects a strong commitment to personal and professional growth. In addition, through this journey, successfully identified with web applications, demonstrating an exceptional ability to create information systems.

My Achievement Certificated