

Setiawan Muhammad

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Summary

Aspiring Software Engineer and Cybersecurity enthusiast. 5th-semester Computer Science student at Telkom University experienced in lab mentorship and bug hunting. Passionate about developing secure solutions and currently upskilling in Machine Learning to solve complex technical challenges.

Education

Telkom University

September 2023 - Present

GPA: 3.49/4.00

B.S. in Computer Science – Informatics (Surabaya Campus)

Experience

Telkom University

September 2024 - Present

Practicum Assistant

Golang, Linux, Java, Docker, C++

- Supervised and provided assistance to more than 50 students in the Algorithms & Programming practicum using Java.
- Managed and taught Operating System practicum sessions, covering process management and Bash scripting in a Linux environment.
- Provided guidance in the Information Systems Security and Object Oriented Programming (OOP) practicum.
- Led practicum sessions on Data Structures using C++, covering arrays, linked lists, stacks, queues, trees, and algorithmic problem solving.

Telkom University

September 2025 - Present

Laboratory Assistant

Linux, Docker, Azure, Google Cloud

- Collaborate with academic staff to maintain and optimize Linux-based lab environments, ensuring seamless operation for practical sessions and research activities.
- Provide technical support and mentorship to students during lab sessions, focusing on system administration, shell scripting, and Linux fundamentals.
- Assist in the development of lab modules and troubleshooting guides to enhance student learning outcomes and lab efficiency.
- Actively contribute to the continuous improvement of lab infrastructure by implementing automation tools and monitoring systems using open-source solutions.
- Taught Cloud Computing modules focusing on containerization and CI/CD tools, including Docker, Azure, and GitHub workflows.

Freelance

January 2025 - Present

Full Stack Developer & Security Researcher

Flutter, Node.js, MySQL, PostgreSQL, Script, Python, Laravel, Burp Suite

- Design and develop web and mobile management applications for clients, using Flutter for mobile frontend and Node.js for backend, to improve clients' operational efficiency.
- Actively participate in bug bounty programs on platforms such as HackerOne, YesWeHack, Intigriti, and Bugcrowd, focusing on vulnerability research, reporting, and improving security standards for web and mobile applications.

Projects

Web Developer

November 2025 – December 2025

Simple Task Manager (SaaS Architecture)

Golang, Gin, Clean Architecture, PostgreSQL, React, TypeScript, Docker, Redis, Swagger

- Built RESTful API with Golang (Gin) using Clean Architecture (Domain, UseCase, Repository).
- Applied security best practices: Bcrypt, CORS, input sanitization (SQLi/XSS prevention).
- Optimized PostgreSQL with pgx/v5, connection pooling, and schema migration via golang-migrate.

Mobile Developer

January 2025 – February 2025

Store Management App

Flutter, Dart, SQLite

- Built a cross-platform mobile application for offline store management designed to streamline daily operations for small business owners.
- Implemented CRUD functionality to manage product, stock, and sales transaction data using a local SQLite database.
- Designed an intuitive and easy-to-use UI to help small shop owners manage their daily operations.

Web Developer

March 2025 – July 2025

Midwife Website Application

Vue.js, Node.js, Express.js, Tailwind CSS, MySQL

- Developed a responsive website that provides articles and information for pregnant women, including prenatal yoga reservations.
- Built a backend using Node.js and Express.js to serve dynamic content from the database.
- Designed an interactive frontend using Vue.js to ensure a smooth user experience across multiple devices.

Vulnerability Research

June 2025 – Present

Bug Bounty

Linux, Burp Suite, Script, Python

- Performed penetration testing on various web applications to identify security vulnerabilities such as SQL Injection, XSS, and CSRF.
- Document vulnerability findings in detail and provide fix recommendations to developers.
- Proactively engage in Bug Bounty Programs on platforms like HackerOne, YesWeHack, and Intigriti, successfully reporting multiple security vulnerabilities (e.g., XSS, CSRF, or Logic Flaws).

Web Developer

May 2025 – June 2025

PortalSantriCerdas (Attendance & Security Web Application)

Laravel, React.js, Tailwind CSS, Face ID (Webcam)

- Developed a modern attendance system for educational institutions with two-factor verification: Face ID via webcam and web login confirmation.
- Implemented advanced security features, including real-time GPS tracking during school hours and Geofencing to ensure students remain within designated areas.
- Created an interactive web dashboard for students and teachers using React.js, featuring attendance status, automated notifications, and attendance reports.

Web Developer

October 2025 - Present

BelanjaKu (E-commerce Web Application)

React.js, Node.js, PostgreSQL, Tailwind CSS

- Designed the architecture and developed a full-stack e-commerce web application inspired by major platforms like Tokopedia and Shopee.
- Implemented key features such as product rating & review systems, dynamic product filters (by price, best-selling, newest), layered promotions (discounts, vouchers), and multiple shipping options.
- Built RESTful APIs using Node.js and Express.js to manage products, users, and transactions stored in a PostgreSQL database.

Hard-Skill

Backend Development:

Java, Spring Boot, PHP, Laravel, Node.js, Express.js, MySQL, SQLite.

Frontend Development:

HTML, CSS, JavaScript, Vue.js, React.js.

Mobile Development:

Flutter, Dart.

Systems & DevOps:

Linux, Bash Scripting, Docker, Git, Github.

Cyber Security:

SQLmap, Subfinder, Nmap, Amass, Wireshark, John, Metasploit, Scripting.

Developer Tools:

Visual Studio Code, IntelliJ IDEA, Android Studio, Cursor, Burp Suite.

Soft-Skill

Leadership & Mentoring, Problem-Solving, Team Collaboration, Technical Communication, Time Management, Adaptability.

Indonesian Language	<i>Fluent</i>
English Language	<i>Intermediate</i>