

Muhammad Hidayat

Full-Stack Developer | Security Engineer | Penetration Tester

Tangerang, Indonesia | withmasday@gmail.com
github.com/wmasday | linkedin.com/in/wmasday/

SUMMARY

Security Engineer and Full-Stack Developer with experience in offensive security, application security testing, vulnerability research, and secure software development. Experienced in conducting enterprise web application penetration testing, security assessments, vulnerability identification, and remediation support for improving organizational security posture.

Strong background in software engineering and cybersecurity research with practical experience in attack surface analysis, security automation, and modern backend systems. Actively expanding expertise in Machine Learning and Blockchain technologies with research interests in integrating Large Language Models (LLMs), blockchain systems, and cybersecurity applications for intelligent security solutions.

CORE COMPETENCIES

CYBERSECURITY

Web Application Penetration Testing | Vulnerability Assessment | Vulnerability Research | Malware Analysis | Secure Code Review | OWASP Top 10 | Black-box Testing | Application Security (AppSec) | Attack Surface Analysis | Threat Intelligence

DEVELOPMENT

Full-Stack Development | REST API Development | Microservices Architecture | Real-Time Systems | Secure Software Development | Machine Learning | Blockchain (Solidity)

EXPERIENCE

Lead Backend Engineer - CookPal

Mar 2026 – Present

- Lead backend architecture and technical implementation initiatives.
- Design scalable application services and backend systems.
- Develop secure and maintainable infrastructure solutions.
- Coordinate backend development aligned with product requirements.

Security Engineer - MPN Indonesia

Dec 2024 – Present

- Conduct enterprise web application penetration testing and security assessments.
- Identify and validate security vulnerabilities using offensive methodologies.
- Collaborate with engineering teams to improve remediation processes.
- Support application security improvements aligned with security standards.

Security Engineer - Bapera News

Jun 2022 – Apr 2025

- Conducted web application penetration testing using black-box methodologies.
- Performed vulnerability identification and validation through attack simulations.
- Assisted security posture improvement initiatives and risk reduction activities.

Full-Stack Developer - ADICI OPS

Nov 2022 – Dec 2022

- Built custom WordPress themes and responsive corporate websites.
- Developed scalable frontend and backend systems.

Intern Full-Stack Developer - Cyber Edu Inkor

May 2022 – Jun 2022

- Contributed to a real-time communication system using Socket.IO and MongoDB.
- Participated in full-stack development using Vue.js, Express.js, PostgreSQL, and Laravel.

RESEARCH EXPERIENCE

Undergraduate Research - Gunadarma University

Implementation of Blockchain and Large Language Models (LLM) Integration for Data Integrity Verification in Malware Analysis

- Researching integration between blockchain systems and Large Language Models (LLMs).
- Designing data integrity verification mechanisms for malware analysis workflows.
- Exploring decentralized approaches to improve trust and immutability of cybersecurity datasets.

LEADERSHIP & COMMUNITY EXPERIENCE

Lead - Cyber Community Universitas Gunadarma (CCUG)

2026

- Lead and coordinate cybersecurity initiatives and technical activities.
- Mentor members in penetration testing and CTF learning pathways.
- Organize workshops, sharing sessions, and technical discussions.
- Support community development and collaboration activities.

Event Organizer & CTF Problem Setter - Gunadarma Code Week 2.0

2026

- Served as one of the event coordinators.
- Designed and developed CTF cybersecurity challenges.
- Assisted event preparation and technical execution.

Problem Setter

TechnoFair (Web Exploitation) 2025 | Hackfest 0x09 (Web Exploitation) | TechnoFair (Web Exploitation) 2024 | Hackfest 0x08 (Web Exploitation)

EDUCATION

Gunadarma University

Bachelor of Informatics

2023 – Present GPA: 3.89

SMK Negeri 2 Jakarta

Software Engineering 2020 – 2023

CERTIFICATIONS

2026 | *Certified Red Team Analyst (CRTA)*

2024 | Web Application Penetration Tester eXtreme (eWPTXv2) INE | Certified AppSec Pentester (CAPen) | Certified Blockchain Practitioner (CBP) | Certified Network Security Practitioner (CNSP)

2023 | Cyber Threat Intelligence 101 | Linux System Administrator (Adinusa) | KKNI Level II Software Engineering Certification

2022 | Linux+ CompTIA

2019 | Voluntary Vulnerability Disclosure Program (VVDP) BSSN

ACHIEVEMENTS

P2MW Funding Awardee CookPal Team 2026 | Silver Medal - IoT iIDEX (International Innovation and Design Expo) 2025 | PKM-KC Project Funding Awardee - SIMBELMAWA | Outstanding Student Award - Universitas Gunadarma | Finalist - Ericsson Hackathon | Finalist - Compfest CTF 16 | Finalist - CTF Techcomfest | 3rd Place - ACT CTF | Delegation Member - LIDM Universitas Gunadarma 2024 | 10th Place - NiteCTF | 7th Place - Invofest Software Development Competition | 2nd Place - Hackfest0x07 CTF 2023 | Medallion for Excellence - LKS National Web Technologies | 1st Place - LKS DKI Jakarta Web Technologies 2022

PATENT

ParQR - Real-Time Illegal Parking Monitoring and Violation System

Patent ID: EC00202455229

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