

Taufiq Candra Kurniawan

Computer Science Student | Network & Cybersecurity Enthusiast

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PROFILE

Computer Science student with hands-on experience in laboratory instruction, system administration, and network troubleshooting. Currently serving as a Laboratory Assistant and Laboratory Administrator, with responsibilities spanning teaching practical classes, managing lab infrastructure, and resolving hardware, software, and network issues. Former ISP Technical Support with practical exposure to network operations. Strong interest in cybersecurity, networking, and backend system development.

EXPERIENCE

Software Engineer Intern – RST Slamet Riyadi Surakarta

January 2026 – February 2026

- Developed a Flutter-based mobile network monitoring application to visualize real-time network performance and system status for a hospital's IT infrastructure.
- Integrated Grafana dashboards and backend monitoring services into the application, while utilizing Docker to support scalable and efficient service deployment.
- Developed a reliable real-time monitoring solution while gaining hands-on experience with Flutter, Grafana, Docker, and DevOps practices in a healthcare environment.

Laboratory Assistant – UPN “Veteran” Yogyakarta

August 2024 – Present

- Created and delivered 5+ structured lab modules (Programming, DSA, Networks, Web) used across multiple practicum classes.
- Prepared and graded assignments and exams for 70+ students per semester, ensuring alignment with course learning outcomes.
- Conducted hands-on lab sessions for classes of up to 30 students, improving practical task completion and concept understanding.

Laboratory Administrator – UPN “Veteran” Yogyakarta

July 2024 – Present

- Managed and maintained 8 computer laboratories (200+ workstations) for daily practicum activities.
- Supported large-scale computer-based exams (UTBK & Mandiri) across 11 laboratories (300+ workstations), ensuring system and network readiness.
- Maintained lab infrastructure including 3 on-site servers and 16+ network switches supporting 200–300+ workstations across 8–11 laboratories.

Technical Support – PT Rasi Bintang Perkasa

June 2022 – April 2023

- Handled 1–2 network support tasks per day ($\approx$ 20–40 tasks per month), including customer troubleshooting, Wi-Fi installation, and service support.
- Configured and troubleshooted customer routers and LAN/WLAN networks for residential internet services.
- Participated in periodic maintenance of 20 BTS towers, performing routine checks and basic service tasks as part of scheduled operations.

Intern Technical Support – PT Rasi Bintang Perkasa

January 2022 – April 2022

- Worked alongside senior engineers with daily network and connectivity tasks (≈1 task per day / 20+ per month).
- Helped resolve basic computer hardware and software problems during field and on-site support.

PROJECTS

Hospital Network Monitoring System

Technologies: Flutter, Grafana, Prometheus, Docker, Node.js, REST API

- Designed and developed a Flutter mobile application for real-time infrastructure and network monitoring in a hospital environment.
- Built REST API integration with Prometheus and Grafana to visualize server health, network traffic, and system metrics.
- Containerized monitoring services using Docker to simplify deployment and improve scalability.

Server Management Console (Github)

Technologies : Node.js (Express), PostgreSQL, Docker, JWT Authentication

- Built a JWT-secured server management system with role-based access control (3 roles: user, manager, admin).
- Built 10+ REST API endpoints for user management and activity/audit logging.
- Architected and implemented a PostgreSQL schema (5+ tables) for secure user data and system logs and containerized the application using Docker.

Kripto App (Github)

Technologies : Python, MySQL

- Applied 3 security mechanisms: classical encryption/decryption, biometric-based login, and basic steganography in a Python application.
- Engineered 5+ functional modules covering authentication, encryption, decryption, data storage, and steganography workflows.
- Evaluated security limitations of classical cryptography and biometric authentication in a learning-focused environment.

EDUCATION

Computer Science – UPN “Veteran” Yogyakarta

Bachelor of Computer Science

AUGUST 2023 – PRESENT

GPA: 3.80 / 4.00

HONORS & SCHOLARSHIPS

BSI Scholarship Awardee

Bank Syariah Indonesia

Selected through a competitive, merit-based examination process.

CERTIFICATIONS

Cyber Security Penetration Testing

ID-Networkers

KKNI Level II on Skills Competency Computer and Network Engineering

BNSP

SKILLS

Backend & Web:Node.js (Express), REST API, JWT Authentication, HTML, CSS, JavaScript

Databases:PostgreSQL, MySQL

Programming: Python (automation, scripting), C++ (data structures & algorithms), Java (OOP fundamentals)

Networking:TCP/IP, Routing, Network Troubleshooting

Systems:Linux, Windows