HERU PURNAMA

Network & System Engineer | Junior Full Stack Developer

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Versatile IT Specialist and Full Stack Developer with hands-on experience as a Network and System Engineer, skilled in troubleshooting, automation, and infrastructure optimization. Passionate about solving network problems, building secure, user-friendly web and IoT solutions.

EDUCATION

Universitas Pendidikan Indonesia

Electrical Engineering

2019 - 2023

- Actively participating in the Kampus Merdeka program.
- Engaged in server management for ee.upi.edu, involving routers, switches, firewalls, NAT, and port forwarding, Proxmox.
- Assisting friends with projects: IoT projects, graph, parking system with db, API, MQTT, SIM800L Telegram.
- Developed a website to provide easy access to the TOPSIS algorithm, using Flask and Python.
- Engaging in off-campus activities by enrolling in various online courses and webinars.
- Experience in operating AutoCAD, SketchUp, and Blender for building and electrical drawings.

SMKN 5 Bandung

Computer and Network Engineering

2016 - 2019

- Actively involved in IT Club organization.
- Experienced in various school projects involving configuration of MikroTik routers, 3D modeling using Blender, game development in Unity, creating virtual lab environments using Linux, and developing basic CRUD systems using PHP Codelgniter.

ACTIVITES AND EXPERIENCE

Network and System Engineer

Bandung

Teradata Megah

June 2024 - Present

Working at an IT solutions company serving the finance sector as part of a four-person team, supporting 40 internal users (including programmers and business support staff) and 6 banking clients. I coordinate with various partners, including ISPs and payment gateway providers, and am responsible for managing the Network and System Infrastructure, ensuring the Data Centre operates reliably 24/7. My responsibilities include:

- Managing virtualization environments using VMware and Citrix.
- Implementing load balancing with Nginx and Citrix to optimize and distribute traffic efficiently.
- Database Replication, to ensure high availability data.
- Automating IPsec and OpenVPN tunnels for secure, rapid site-to-site deployments, integrated with Policy-Based Routing (PBR) and Network Address Translation (NAT).
- Administering network devices including Checkpoint, Mikrotik, and Aruba for security, routing, and wireless connectivity.
- Operating Extended Detection Response: XDR Bitdefender, EDR Eset to enchance endpoint security.

Scalable Web Service With GoLang

Indonesia, Remote

Hacktiv8

Feb 2024 - Maret 2024

Built and deployed scalable web services using Go (Golang) as part of a backend development program. Key projects include:

- Developing code to import data from Excel.
- Creating a REST API, and designing a minimal web game similar to Fallout Shelter.
- Creating MyGram API, which includes user management (login and register), photo uploads, commenting functionality, and social media interactions (post, get, put, delete) related to userIDs, and deploying it to Railway.

Artificial Intelligence Mastery Program

Orbit Future Academy

Indonesia, Remote

RELATE (Repair Electronic Website) - Group Project Lead

Feb 2022 - Jul 2022

A group project to develop a server-side rendered (SSR) web application that helps users identify their device's screen condition and receive service recommendations using custom-trained Machine Learning models. I led a cross-functional team with expertise in Machine Learning (ML), Natural Language Processing (NLP), Computer Vision (CV), and Data Science (DS), while also contributing as a Full Stack Developer using Python and Django. Key projects include

- Implemented Git and Trello to streamline team collaboration and agile workflow.
- Integrated an NLP chatbot that recommends relevant YouTube videos and Google Maps locations based on user queries.
- Integrated Computer Vision to classify smartphone screen damage into categories (e.g., minor, moderate, severe).
- Deployed the application on Heroku and a private server, supporting features like authentication, CRUD operations, Google
 APIs, and a user profile system.

Jul 2018 - Sep 2018

- Offer client services, including hardware upgrades and repairs (primarily laptops), installing, licensing, and repairing software to various operating systems.
- LAN installation in new building and made perfect server with Control Panel using ISPConfig.

VOLUNTEER EXPERIENCE

KKN Community Service SDN Cibanteng & SMPN 59

Bandung, Indonesia

January 2023

Led a multidisciplinary team to promote digital literacy in the community, focusing on cybersecurity and the use of technology. A key highlight was my article on Kompasiana, titled "Cara Mengamankan Diri di Dunia Digital," which received over 28,989 views. I also took initiative to merge and design a collaborative book chapter involving contributions from 31 participants.

Digital Literacy Program Highlights:

Research & Content Development:

- Compiling comprehensive references on Cyber Security and Semiconductor-War.
- Gathering information on account cracking techniques to better educate against them.
- Developing engaging Cyber Security socialization materials for students.

Planning for Technical Demonstrations:

- Designing and preparing a website functionality simulation to illustrate digital concepts.
- Developing and preparing materials for a smart home demonstration, showcasing how relays and dot matrices can be controlled.
- Assembling microcontroller equipment, relays, and dot matrices to support the smart home demonstration.
- Setting up equipment for running text displays.

ACHIEVEMENT AND CERTIFICATION

Information and Communication Technology (ICT)

- Mikrotik: MTCNA Jan 2019
- Cisco: Network Automation Engineering Fundamentals Specialization, Endpoints and Systems (Coursera) - March 2024
- Cisco CyberOps Associate (CCOA) May 2024
- JavaScript Beginner (Udemy and Skilvul) March 2024
- Basic (Python, SQL), Intermediate (SQL) HackerRank- Feb 2024
- Pure Storage Field Engineer, FlashBlade and FlashArray
 English Course
- ETS TOEIC score 570- Feb 2019
- Centralcourse TOEFL score 553- Sep 2023

SKILLS

I really like figuring things out. I enjoy connecting different tools or tech to make stuff work together—whether it's fixing systems, helping people access things at ease, making minecraft server with command block or building something useful on the web. It feels good when I can make tech easier or more helpful for others.

TOOLS & TECHNICAL SKILLS

Languages & Frameworks:

Python (Flask, Django), C++, Java, GoLang, JavaScript (Node JS, Express, VueJS, NextJS), Tailwind, Bootstrap.

Infrastructure & Networking:

 VMware, Proxmox, Citrix, NAT, VPN/IPsec, Policy-Based Routing (PBR), Network Troubleshooting, Wireless Networking, DDoS Analysis

Tools:

• Wireshark, Kibana, Git, SIM800L, MQTT, AutoCAD, SketchUp, Blender