Bagus Setiawan

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PROFILE SUMMARY

Computer Science undergraduate with a strong interest in computer networks, cloud infrastructure, and DevOps practices. Familiar with configuring networking devices, deploying cloud services, and basic CI/CD workflows. Has hands-on experience using tools such as AWS, MikroTik, Docker, and Linux in academic and personal projects. Passionate about sharing knowledge through training and mentoring, with the ability to deliver technical content in structured sessions. Motivated to continuously learn, collaborate with others, and contribute to building efficient and reliable systems.

PROFESSIONAL EXPERIENCES

PT. Solo Jala Buana (SOLONET)   Surakarta, Jawa Tengah, Indonesia
                                                                      Feb 2021 - Jul 2021 (approx.)

- **BTS Pointing**

  - Collaborated with technicians to perform pointing on a BTS in Boyolali

- **Kominfo Karanganyar**

  - Worked with mentors and the team to assist in a project at the Karanganyar Regent's Office.

  - Helped assemble a new server rack for transferring servers from the old rack.

  - Organized and restructured messy cables and separated essential from non-essential equipment.

- **Server Project**

  - Installed web server, DNS, mail server, and VoIP (Voice Over Internet Protocol Server).
  - Collaborated with peers to ensure smooth configuration and installation.

SMK Bintang Nusantara   Tangerang, Indonesia
Trainer and Assistant Trainer   November, 2020

- **MTCNA (Mikrotik Certified Network Associate)**

  - Delivered training on networking fundamentals and MikroTik device configuration, including hands-on practice with mini-routers.

  - Lab Activities: Conducts practical labs on several materials.

- **MTCRE (Mikrotik Certified Routing Engineer)**

  - Teaches routing concepts and advanced techniques.

  - Lab Activities: Conducts practical labs on several materials.

- **CCNA (Cisco Certified Network Associate)**

  - Provides instruction on networking basics, IP addressing, and basic Cisco device configuration.

- **Preparation and Training**

  - Participate in preparatory training sessions to deepen knowledge of the material and teaching strategies before the event.

SKILLS

NETWORK ENGINEER

Cisco
- Knowledgeable in configuring and troubleshooting Cisco network devices.
- Knowledgeable in Routing Switching, Vlan, NAT, DHCP, Access-List.

MikroTik
- Implemented IP addressing, VLAN mapping, and VPN configurations.
- Knowledgeable in Routing, Switching, Wireless, QoS, DHCP, DNS, Hotspot, NAT.

CLOUD ENGINEER

AWS Web Services
- Experienced in launching and managing EC2 instances using AWS.
- Familiar with accessing and configuring Ubuntu instances via Windows PowerShell.
- Knowledgeable in setting up and managing AWS RDS databases, specifically using MariaDB.

Linux Administration
- Proficient in using the Ubuntu operating system, including command-line operations for software installation and updates.
- Experienced in configuring and managing system services using systemd.
- Knowledgeable in setting up and managing web, DNS, Voip and mail servers on Linux.

AWS Load Balancer Configuration
- Experienced in creating target groups and configuring routing rules to balance traffic between multiple EC2 instances.
- Knowledgeable in configuring and managing AWS Application Load Balancers (ALB) and Network Load Balancers (NLB).

Containerization with Docker
- Skilled in writing Dockerfiles to containerize Python applications, specifying base images and configuring the environment.
- Skilled in creating and managing Dockerfiles to containerize Python-based web applications (Flask, FastAPI).
- Proficient in building, tagging, and deploying Docker containers for local and remote environments.
- Experienced in using Docker for isolated development and testing of microservices.

PROJECTS

AWS Load Balancer Configuration

Skill Used: AWS EC2, Load Balancing, Flask, Python, Troubleshooting

- Set up a load-balanced environment on AWS using EC2 instances running a Flask-based web service.
- Created a target group and routing rules for effective traffic distribution.
- Diagnosed and resolved unhealthy target issues, ensuring correct instance responses.
- Verified failover by shutting down one instance and observing traffic rerouting to the healthy node.

AWS Web Service Deployment

Skills Used: AWS EC2, Python, Flask, NGINX, RDS

- Deployed a Python Flask web service on an AWS EC2 instance.
- Set up a virtual environment and configured Gunicorn as the WSGI server.
- Used NGINX as a reverse proxy and established a connection to an RDS instance using MariaDB for database management.
- Configured systemd to manage the Flask service, ensuring it runs as a background service.

INTEGRATED NETWORK DESIGN

Skills Used: Network Design, Subnetting, Routing and Switching

- Designed an integrated network for three floors, focusing on IP addressing and device selection.
- Implemented OSPF for dynamic routing to enhance network efficiency.
- Utilized Cisco Packet Tracer for simulation, ensuring connectivity and communication between floors.

WEB LakonIn

Skills Used: HTML, CSS, JavaScript

- Developed LakonIn, a platform to help foreign speakers learn Bahasa Indonesia and explore Indonesian culture.
- Created interactive courses, quizzes, and short films to enhance language skills and cultural understanding.
- Facilitated community connections among learners for an engaging and immersive experience.

FLASK DEVOPS CI/CD PIPELINE

Skills Used: CI/CD Automation, Containerization, Deployment Orchestration, DevOps Tools

- Built a CI/CD pipeline for a Flask web app with GitHub Actions and Docker.
- Deployed the app on a local Kubernetes cluster using Minikube with service exposure via NodePort.
- Automated Docker image build & push to Docker Hub, and structured YAML configurations for K8s deployment.

WEB PETSTAY

Skills Used: UI/UX Design

- Developed PetStay, a platform connecting pet owners with services like pet shops, online consultations, and home delivery for grooming/vaccination.
- Designed user-friendly features including online reservations for pet hotels, pet consultations, and home delivery for pet supplies.
- Implemented grooming and vaccination services at home to enhance pet care convenience.

College Admission Prediction with Logistic Regression

Skills Used: Python, Pandas, Logistic Regression, Data Analytic, Machine Learning

- Cleaned and preprocessed student data to handle missing values and categorical encoding.
- Built a logistic regression model and optimized it with GridSearchCV.
- Developed a user function to predict admission probability from new input data.

EDUCATIONS

BINUS UNIVERSITY   Jakarta, Indonesia
Undergraduate Computer Science Major   2022 - 2026

SMK IDN BOGOR   Bogor, Indonesia
Network Engineering Major   2019 - 2021

CERTIFICATIONS

ACTIVE
- D-Link Certified Network Design Associate (DCNA), 2023-2025
- Fortinet Certified Fundamentals in Cybersecurity (FCF) (via Fortinet NSE Training Institute), 2025 - 2027
- Google IT Support (by Google via Coursera)

INACTIVE
- MikroTik Certified Network Associate (MTCNA). 2020-2023
- MikroTik Certified Routing Engineer (MTCRE), 2020-2023
- MikroTik Certified Traffic Control Engineer (MTCTCE), 2021-2024
- MikroTik Certified Inter-Networking Engineer (MTCINE), 2021-2024
- Ubiquiti Broadband Wireless Admin (UBWA), 2022-2024

COURSE COMPLETION
- NetOps (DevOps for Network Engineers): Automating Networks - Linkedin Learning
- Hybrid Multicloud Networking: Practical Concepts - Linkedin Learning