Bagus Setiawan

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PROFESSIONAL EXPERIENCES

PT. Solo Jala Buana (SOLONET)   Surakarta, Jawa Tengah, Indonesia

- **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 tidied up cables that were not properly arranged and moved necessary and unnecessary items.

- **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

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

  - Delivered training on networking fundamentals and Mikrotik device configurations, covering 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.

PROJECTS

AWS LOAD BALANCER
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 an application load balancer to distribute traffic between instances.
- Resolved issues such as unhealthy target status and ensuring proper instance responses.
- Tested the setup by shutting down one instance to verify traffic failover to the other.

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.

FASTAPI WEB SERVICE WITH DOCKER
Skills Used: FastAPI, Docker, API Development, Dependency Management
- Created a web service using FastAPI and containerized it with Docker.
- Developed endpoints for basic functionality, including a welcome message and item request handling.
- Wrote a Dockerfile to set up the environment, install dependencies, and run the application using Uvicorn.
- Demonstrated efficient API development and containerized deployment for seamless scalability and management.

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.

WEB PETSTAY

Skills Used: UI/UX Design

- Developed PetStay, a platform that connects pet owners with service providers such as pet shops and veterinarians for easy access to various services and products.

- 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

- Explored and analyzed student data, calculating key statistics and correlations.

- Cleaned and preprocessed data, handling missing values and encoding categorical features.

- Built and trained a Logistic Regression model to predict college admission.

- Evaluated model performance with accuracy and optimized it using GridSearchCV.

- Developed a prediction function for new student data based on trained model.

EDUCATIONS

BINUS UNIVERSITY	**Jakarta, Indonesia**
Undergraduate Computer Science Major	**2022 - 2026**
SMK IDN BOGOR	**Bogor, Indonesia**
Network Engineering Major	**2019 - 2021**

CERTIFICATIONS

ACTIVE
- Ubiquiti Broadband Wireless Admin (UBWA), 2022-2024
- D-Link Certified Network Design Associate (DCNA), 2023-2025

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