ABDUL FATAH AMRULLOH

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PROFILE

Graduate of Bachelor's Degree in Telecommunication Engineering from Telkom University with a strong interest in Internet of Things (IoT), Adaptive Networks, and smart network simulation. Experienced in developing projects based on ad-hoc vehicle networks (VANET) and utilizing various simulation platforms and web development. Capable of working collaboratively, communicatively, and creatively to solve technical challenges.

EDUCATION

TELKOM UNIVERSITY   2021 - 2025
- **IPK**: 3,45 / 4,00
- Relevant Courses: Outstanding Courses: Algorithms & Programming, Microcontrollers, Computer Networks, Adaptive Network, Internetworking, Optical Communication Systems, Telematics Project Management, RF Electronics.

WORK EXPERIENCE

Internship – PT Sisterponik   February – June 2024
- Developed an IoT-based soil NPK (Nitrogen, Phosphorus, Potassium) monitoring system using Arduino, NPK sensors, SIM800L, and the Blynk platform.
- Designed electronic schematics and PCB layouts using Eagle and Fritzing; created 3D sensor casing prototypes with Tinkercad.
- Integrated hardware and software components for real-time data transmission and visualization.
- Conducted field testing, data collection, and sensor calibration on agricultural soil samples.
- Supported the hardware manufacturing process and implemented improvements based on test results.

Assistant in Programming Laboratory And Network Security Laboratory

Assistant for PSWD (Discrete Signal Processing)   Sept 2023 – Feb 2023
- Preparing materials before the lab session.
- Assisting students in simulating MATLAB.
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Assistant in Programming Laboratory And Network Security Laboratory

Assistant for Technical Drawing Lab   Sept 2023 – Feb 2023
- Preparing materials before the lab session.
- Assisting students in simulating Cadsoft Eagle Design PCB, Autodesk Viewer, AutoCAD, SolidWorks software.
- Testing and evaluating the simulation results of students.

Assistant in Programming Laboratory And Network Security Laboratory

Assistant for Programming Workshop   Sept 2023 – Feb 2023
- Preparing materials before the lab session.
- Assisting students in simulating Python using Visual Studio Code and Google Colab.

- Testing and evaluating the simulation results of students.

ORGANIZATIONAL EXPERIENCES

SMART FISH FARM ANDROID (SMAFI)   2021
- Developing the user interface for SMAFI, a smart fish farm Android application.
- An Android application focused on fish farming investment.
- Managing the program using Android Studio, using Flutter with Dert programming language.

Simulation of Ad-Hoc On Demand Distance Vector (AODV) Routing Protocol on VANETs
- Developing a simulation system for ad-hoc vehicle networks (VANET) with AODV protocol.
- Using SUMO and OMNeT++ applications to simulate vehicle mobility and communication scenarios.
- Analyzing parameters such as end-to-end delay, throughput, and packet delivery ratio.
- Creating a website to display simulation results and visualize parameters interactively and in real-time.

TRAINING

CCNAv7: Introduction to Networks   2023
Cisco Networking Academy | Juni 2023
- Mastering switch, router, and network device configurations.
- Designing IPv4 and IPv6 addressing schemes.
- Implementing network security practices and ensuring optimal connectivity.

CCNAv7: Switching, Routing, and Wireless Essentials   **2023**
Cisco Networking Academy | Desember 2023
- VLAN & Inter-VLAN Routing: Configuring VLANs and inter-VLAN routing with best security practices.
- Network Redundancy: Implementing STP and EtherChannel to enhance network availability.
- Static Routing: Configuring static IPv4 and IPv6 routing on routers.
- Network Security: Implementing switch and wireless network security to reduce LAN attacks.
- Dynamic Networking: Configuring dynamic IPv6 address allocation and supporting robust networks.

Microsoft Excel Basic Training by Skill Academy   2023
- Understanding basic Excel formulas.
- Knowing Excel formulas.
- Creating and editing charts and diagrams.

Microsoft Azure AI Fundamentals   2024
- Basic concepts related to Azure AI.
- Introduction to AI, machine learning, anomaly detection, computer vision, natural language processing, knowledge mining, AI challenges and risks, responsible AI.
- Microsoft Azure AI Fundamentals validates basic knowledge of machine learning.

HCIA-AI V3.5 Course   January 2024
Huawei Enterprise Business Group
- Gained an understanding of artificial intelligence (AI) fundamentals and its real-world applications.
- Studied neural networks, machine learning models, and AI system architectures.

- Learned the complete AI workflow from model training to deployment.
Scaling AI in Your Organization   March 2025

Digital Talent Scholarship – Kominfo

- Explored strategies for responsibly scaling AI adoption in organizational environments.
- Understood the impact of AI on productivity, decision-making, and efficiency.
- Identified key challenges and solutions in enterprise-level AI implementation.
Prompt Engineering with Azure OpenAI Service   May 2025

Digital Talent Scholarship – Kominfo

- Learned the basics of prompt engineering for large language models (LLMs).
- Designed effective prompts to optimize AI-generated responses.
- Applied prompt engineering in practical scenarios using Azure OpenAI Service.

SKILLS

- **Hard Skills:** Visual Studio code, python, Matlab, Cadsoft Eagle Design PCB, Autodesk Viewer, AutoCAD, software SolidWorks, OMNeT++, SUMO, Microsoft Word, Microsoft Excel (vlookup & lookup), Microsoft Power Point.
- **Soft Skills:** Leadership, Time Work, Problem Solving, Communication, Time Management, and Creativity.
- **Programming language:** C++, C, Python, html, css, java.
- **Sertifikasi :** Cisco Certified Network Associate (CCNA) v7 : Introduction to Networks, Cisco Networking Academy Program, juni 2023, CCNAv7: Switching, Routing, and Wireless Essentials Cisco Networking Academy Desember 2023.

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https://abdulfatahamrulloh.github.io/