

# BENNI HASAHATAN TAMPUBOLON

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Jalan pematang siantar, Sibulele, KAB. TOBA SAMOSIR, BALIGE, SUMATERA UTARA, ID

I am a fresh graduate with a diploma in Computer Technology from the Institute of Technology Del, and I have a strong interest in cybersecurity and network engineering. I am passionate about protecting information systems from cyber threats and have gained valuable knowledge during my studies. Throughout my coursework, I explored key areas of IT security, including risk analysis, incident management, and network security. I have practical experience with essential tools for penetration testing and security assessments, such as Burp Suite, Nmap, and Nessus, which have equipped me to identify and address vulnerabilities effectively. Additionally, I am familiar with Wazuh as a SIEM tool. My hands-on experience in projects has helped me develop my technical skills and apply what I've learned in real-world situations. I thrive in team settings, adapt quickly to new technologies, and approach challenges with an analytical mindset. I am eager to continue learning and staying updated with the latest trends in the industry. I am motivated to contribute to creating a safer digital environment, and I believe my educational background and enthusiasm make me a strong candidate in the field of cybersecurity.

## Work Experiences & Project Experiences

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### Private Network Penetration Testing - IT Del - Sitoluama

Nov 2023

#### Campus Project

Private penetration testing that aims to identify vulnerabilities in applications with ip 192.168.100.210

- The application does not implement HTTP Strict Transport Security (HSTS), allowing Man-in-the-Middle (MitM) attacks and unencrypted data.
- The SSH server supports a weak key exchange algorithm (KEX), risking allowing attackers to obtain encryption keys.
- Unencrypted connections make applications vulnerable to attacks where sensitive data can be stolen.

### Pentester Training in IT Del - IT Del - Sitoluama

Sep 2023

#### Campus Project

security testing using tools such as OWASP ZAP at Acunetix web application to identify and evaluate emerging security vulnerabilities

- Use parameterized queries and input sanitization to solve SQL Injection
- Implement Content Security Policy (CSP) in the case of XSS
- Apply anti-CSRF tokens on all sensitive requests
- Use X-Frame-Options header to overcome clickjacking

### Air Quality Monitoring in the environment - IT Del - Sitoluama

Mar 2023 - Jun 2023

#### Campus Project

The goal is to determine the level of accuracy, precision and recall values in an air quality monitoring tool, such as to determine whether air levels are at normal levels or not, so that it can tackle air pollution and can monitor continuously without being limited by space and time.

- Detects air quality and signals pollution events. Continuous monitoring of air quality. The system detects air pollution, such as smoke for real-time responses.

### Nuffic Neso Nederlands - Humbang Hasundutan

Feb 2023 - Aug 2023

#### IoT engineering

This food estate is part of the 2020/2024 national strategy program created to prepare the country's food defense. This food estate is located in Ria Ria, Pollung District, Humbang Hasundutan Regency, North Sumatra.

- Implementation of IoT Technology for Potato Cultivation, Successfully developed and implemented an IoT-based solution that improved the efficiency of potato cultivation in the company.
- Application of Practical Skills in the Real World, Apply the knowledge and skills acquired during the lectures in the work environment.,
- Gained experience as an IoT Engineer, providing a strong foundation for entering the professional world.
- Automation Control System Development, Created a system that optimizes the use of resources such as water and energy, improving the company's operational efficiency.

### PT. TELKOM AKSES - Medan

Jun 2024 - Aug 2024

#### Network Manager

One of the subsidiaries of PT Telkom Indonesia which is engaged in building construction and managing network infrastructure services. PT Telkom Akses (PTTA) was established on December 12, 2021.

- Learning to make Fiber Optic Networks
- Creating an Auto Data Fill Telegram Bot in Telkom Access
- Studying the development and maintenance of telecommunications access facilities
- Assist in providing detailed reports on ODP and device surveys

### Website Jasa Titip Instan - - IT Del - Sitoluama

Feb 2022 - May 2022

### Campus Project

- Backend Development with Laravel: Implemented the Laravel framework to develop a robust and efficient backend and Developed an optimized database to store user information, transactions, and item details.
- Payment System Integration: Integrate a secure payment system to support goods drop-off transactions and ensure transaction security and user data protection.
- Testing and Maintenance: Conduct thorough testing of website functionality to ensure optimal performance and Develop a regular maintenance plan to address potential bugs and improve features.

### Implementation of Handoff Techniques using LoRaWan Technology - - IT Del - Situluama

Aug 2023 - Sep 2023

#### Campus Project

Create and implementation handoff techniques

- implement efficient handoff techniques to improve LoRaWAN network performance
- integrate LoRaWAN network scalability
- through the implementation of handoff techniques.

## Education Level

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### Institut Teknologi Del - Institut Teknologi Del, Situluama, Kec. Balige, Toba, Sumatera Utara 22381

Jul 2021 - Sep 2024

Diploma in Computer Engineering, 3.01/4.00

- Awardee: Excellent contribution in developing Sustainable Food Systems in North Sumatra Nuffic coutheast asia (2023)
- Relate Work: System Hacking, Computer Network, Inter-networking, Network Administration, Network Security
- TSA Digital Talent Scholarship Training (Become an AWS Cloud Engineer) 2024

### Cisco Networking Academy Indonesia - Online

Jan 2024 - Jul 2024

Certificate in Training of Trainers of CISCO Networking Academy on Basic Digital Skills Programs

- Ethical Hacker (CEH)
- Junior Cybersecurity Analyst Career Path
- Learn about Introduction to Networks, Enterprise Networking, Security, and Automation
- Endpoint Security
- Introduction to Cybersecurity

### Digital Talent Scholarship (DTS) - Online

Feb 2024 -

Certificate in Competency development training program that has been provided to Indonesian digital talents since 2018.

- DTS KOMINFO 2024 Batch 3 Security Training & Certification with alibaba
- Become an AWS Cloud Engineer Talent Scouting Academy Digital Talent Scholarship 2024

### Alibaba Cloud Academy - Online

Sep 2024 -

Certificate in DTS KOMINFO 2024 Batch 3 Security Training & Certification with alibaba

- Standard badge from Alibaba Cloud Academy
- Cloud Security Global Certificate from Alibaba Cloud Academy ACA
- ACA Business User Hands-on Labs certificate
- Apsara clouder badge from Alibaba Cloud Academy

### AWS Cloud Computing Courses - Online

Feb 2024 - Mar 2024

Certificate in Become an AWS Cloud Engineer Talent Scouting Academy Digital Talent Scholarship 2024, 81.79/100.00

- AWS Academy Cloud Architecting
- AWS Academy Cloud Foundations

## Organisational Experience

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### Computer Engineering Student Association - IT Del - Situluama

Sep 2021 - Present

#### Member

Computer Enginering Student Association (Himatek) is an organization established to help, support, and advance students interested in Computer Engginering.

Himatek serves as a platform for students to improve their knowledge, skills, and network in the IT world.

- Updating all activities of the Association on social media accounts such as Instagram and Facebook
- Participated in discussions in a group of administrators from the Computer Technology Student Association.

### Member of UKM Del Saga Dev - Institut Teknologi Del, Situluama, Kec. Balige, Toba, Sumatera Utara 22381

Jul 2021 - Present

#### Member

as a creative platform for students to explore and develop their potential in the gaming industry, and create innovations that have a positive

impact on the world of gaming.

- Involved in the game development process, including programming, graphic design and content creation.
- Work closely with other team members to design and implement game features based on agreed concepts.
- Conduct game trials and provide constructive feedback for improvement.

**RNHKBP Choir - Sibola Hotangsas, Kec. Balige, Toba, Sumatera Utara**

Dec 2018 - Present

*Member*

The RNHKBP Choir aims to develop the talents of its members, improve musical quality, and contribute to various church and community activities.

- training and workshops on music, vocals and harmony for members.
- Participate in social and charitable activities, using music as a means to empower and serve the community.

## Skills, Project & Achievements

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- **Soft Skills::** Attention to detail, analytical thinking, problem-solving, communication, teamwork, critical thinking, individual work and self motivated
- **Hard Skills:** (2024): Ethical Hacking, Web penetration Test, Information Security, Python, Bash, or PowerShell, Vulnerability Assessment, Penetration Testing, Risk Assessment, Network Security, Web Application Security,
- **ACA Cloud Security Certification** 🏆 (2024): Global Certificate from Alibaba Cloud Academy
- **ACA Business User Hands-on** 🏆 (2024): Global Certificate from Alibaba Cloud Academy
- **Ethical Hacker (CEH) Issued by Cisco** 🏆 (2024): Importance of Ethical Hacking, Preliminary Documentation, Information Gathering, Social Engineering Attacks, Network Vulnerabilities, Application-Based Vulnerabilities, Cloud and IoT Security, Post-Exploitation Activities, Penetration Testing Report, and Classification of Pentesting Tools
- **Endpoint Security Issued by Cisco** (2024): Unique challenges of data types, Threat mitigation recommendations, Simulated network configuration, Malware file analysis, and Endpoint security evaluation.
- **Learn Ethical Hacking From Scratch by Udemy** 🏆: Become an ethical hacker that can hack like black hat hackers and secure systems like cybersecurity experts by Zaid Sabih, Z Security
- **Introduction to Critical Infrastructure Protection** 🏆 (2024): issued by OPSWAT Academy
- **CCNA: Enterprise Networking, Security, and Automation Issued by Cisco** 🏆 (2024): OSPFv2 Configuration, Network Threat Mitigation and Security, IPv4 ACL Implementation, NAT Services, Address Scalability Techniques and Secure Remote Access, Network Optimization and Monitoring, QoS on Network Devices, and Network Management
- **Projects: NetRunner\_Tools (Pentester)** 🏆 (2024): NetRunner, a powerful vulnerability scanning tool designed to help security professionals and developers identify weaknesses in web applications. This Python-based tool is user-friendly and efficient, making it an essential addition to your cybersecurity toolkit.
- **Certificate in Cyber Security** 🏆 (2024): issued by Oxford Home Study Center OHSC
- **Junior Cybersecurity Analyst Career Path Issued by Cisco** 🏆 (2024): Implement HSTS, Address Weak KEX Algorithms, Regular Security Audits, Enhance TLS Practices, and Mitigate Data Exposures
- **CCNA: Introduction to Networks Issued by Cisco** 🏆 (2024): Configuration of Switches and End Devices, Understanding Protocols, Router Configuration, Addressing Schemes, OSI Model Support, basic Network Security
- **Projects : LIVING LAB SUSTAINABLE FOOD SYSTEMS** 🏆 (2023): excellent contribution in developing Sustainable Food Systems in North Sumatra
- **Cybersecurity Awareness Professional Certification - CAPC** 🏆 (2024): This badge highlights the individual's ability to recognize and address common cyber threats, implement effective protective measures, and contribute to a secure digital environment. They understand the importance of cybersecurity and its economic and legal implications.
- **Projects: Website Jasa Titip Instan** (2022): Build a website for selling specialty items
- **Project : IDOR-Scanner-vurnability** 🏆 (2024): scanning tool that I have recently developed! This tool is designed to detect Insecure Direct Object Reference (IDOR) and Mass Function Level Access Control (MFLAC) vulnerability
- **Introduction to Cybersecurity Issued by Cisco** 🏆 (2024): Basics of Online Safety, Common Cyber Threats and Vulnerabilities, Personal Online Protection, Organizational Protection Strategies
- **Projects: Implementation of Handoff Techniques using LoRaWan Technology** (2024): Create and implementation handoff techniques
- **AWS Academy Graduate - AWS Academy Cloud Architecting** 🏆 (2024): basics of building IT infrastructure on AWS
- **Projects: Static-Application-Security-Testing-and-Automation** 🏆 (2024): This project is a tool for scanning vulnerabilities in source code using Semgrep and generating a report in PDF format. This tool can be used to enhance application security by detecting potential vulnerabilities in code.
- **Projects: Challenge Problems Security Architecture** 🏆 (2024): My idea plan to implement security architecture in an organization/ company, especially in the field of IoT
- **Projects: Cryptographics-Challenge-Problems** 🏆 (2024): This repository contains a User Registration and Authentication System with salted hash implemented in Go. It allows users to register with a username and password and authenticate themselves later. The

application uses SQLite as the database and Argon2 for password hashing, providing a secure and straightforward web interface.

- **AWS Academy Graduate - AWS Academy Cloud Foundations** (2024): the basics of cloud computing and AWS Cloud services
- **SQL (Basic) Certificate** (2024): includes simple queries, relationships, and aggregators.
- **JavaScript (Intermediate) Certificate** (2024): JavaScript (Intermediate) It covers topics like Design Patterns, Memory management, concurrency model, and event loops, among others.
- **Projects : Telkom ODC Data Bot Implementation Plan project** (2024): Has completed Industrial Work Practices at PT Telekomunikasi Indonesia, Tbk at Data Management Witel Sumut Starting June 10, 2024 to August 02, 2024 with good results.
- **Achievements: Cybersecurity Starts with Me** (2024): Badge from Alibaba Cloud Academy
- **Networking Essentials** (2024): Issued by Cisco
- **Achievements: Best Practices for Security on the Cloud** (2024): Badge from Alibaba Cloud Academy
- **Achievements: Network Security on Alibaba Cloud** (2024): Badge from Alibaba Cloud Academy
- **Achievements: Account Security on Alibaba Cloud** (2024): Badge from Alibaba Cloud Academy
- **Achievements: CI/CD Essentials** (2024): Badge from Alibaba Cloud Academy
- **Achievements: Cloud Security at the Workspace** (2024): Badge from Alibaba Cloud Academy
- **Achievements: Cloud platform security overview** ☐ **Exam** (2024): Badge from Alibaba Cloud Academy
- **Achievements: Cloud Fighters - Application Security** (2024): Badge from Alibaba Cloud Academy
- **Achievements: Basics of Cloud Security** (2024): Badge from Alibaba Cloud Academy
- **Apsara Clouder: MySQL for Beginners - Basic Queries (Free Exam)** (2024): Apsara clouder badge from Alibaba Cloud Academy
- **Apsara Clouder: Operate and Manage a Relational Database on the Cloud** (2024): Apsara clouder badge from Alibaba Cloud Academy
- **Apsara Clouder: Manage and Operate MySQL Database** (2024): Apsara clouder badge from Alibaba Cloud Academy
- **Apsara Clouder: Alibaba Cloud ApsaraDB for PolarDB Technical Essentials** (2024): Apsara clouder badge from Alibaba Cloud Academy
- **Apsara Clouder: Introduction of HBase** (2024): Apsara clouder badge from Alibaba Cloud Academy