

DIDULA WIJESOORIYA

NETWORK ENGINEERING INTERN

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PROFILE

I'm a Computer Engineering undergraduate passionate about building innovative and scalable solutions. I focus on leveraging technology to solve real-world problems efficiently and effectively.

PROJECTS

1.HealthHub - Smart Hospital Management System

- Developed a full-stack hospital management system with real-time appointment handling, digital prescriptions, and secure role-based access.
- Built responsive dashboards and collaborated using Agile methodologies and Jira for sprint tracking.

Tech Stack: Java Spring Boot, React, MySQL, Jira

2.Smart Pet Feeder – IoT-Based Feeding System

- Engineered a pet feeder using ESP32 with real-time monitoring and scheduling via a React Native app.
- Integrated ultrasonic sensors for food level detection and Firebase for alerts and synchronization.

Tech Stack: ESP32, C, React Native, Firebase, Ultrasonic Sensors

3. Video Chat App – WebRTC Video Conferencing Platform

- Created a video chat application supporting HD calls, screen sharing with audio, and instant messaging.
- Used WebRTC for peer connections and Socket.io for signaling with automatic reconnection handling

Tech Stack: WebRTC, Socket.io, Node.js, Express, HTML, CSS, JavaScript

4.Research (Ongoing): Machine Learning-Based Intrusion Detection System for Public Wi-Fi

- Developing a lightweight, real-time IDS to detect Layer 2 attacks (e.g., ARP spoofing, MITM) on unsecured public networks.
- Leveraging supervised machine learning for anomaly detection with model quantization for edge deployment
- Integrating with pfSense firewall as a SmartIDS plugin for live traffic monitoring and threat mitigation.
- · Simulating attack scenarios using Mininet and benchmarking against tools like Arpwatch and Snort.

Tech Stack: Python, Scikit-learn, Mininet, pfSense, Arpwatch, Snort, Wireshark

5.Online Shopping Web Application (Ongoing)

- Built a MERN stack e-commerce platform with JWT authentication and bcrypt for secure user login and password management.
- Integrated Google OTP for two-factor authentication to strengthen session security.
- Designed responsive, user-friendly interfaces with Tailwind CSS, ensuring secure API communication

Tech Stack: MongoDB, Express.js, React, Node.js, JWT, Bcrypt, Google OTP API, Tailwind CSS

EDUCATION

BSc. Engineering (Hons.) In Computer Engineering

University Of Jaffna

 Relevant Coursework: Software Engineering, Software construction, Database Management Systems, Computer Networks & Security, Operating Systems, Computer Architecture, Embedded Systems Design, Data Structures & Algorithms, Machine Learning, Deep Learning, Artificial Intelligence, Advanced Networking

Diploma in Software Engineering

2021

Esoft metro campus

Advance level in physical science stream

2017-2020

2022 - Present

Bandaranayake college gampaha

SKILLS

• Programming Languages: Java, Python, C++, JavaScript, HTML, CSS

Frameworks : React.js, Node.js, Express.js, Arduino

Databases : MongoDB, MySQL

• Tools & Technologies : Git, Postman, Cisco Packet Tracer, Jiraa

• Cloud Services : AWS(basics)

Network & Security : Wireshark, WebRTC, PfSense

Soft Skills : Team Collaboration, Problem Solving, Self Learning, Leadership

CERTIFICATES

Introduction to Java (sololearn)

Java Programming Internship at CodSoft

- Python for beginners (DP Education)
- MoraXtreme 9.0
- AlgoXplore 1.0
- Application of ATT&CK Navigator from

AttackIQ!

- SpiritX(MoraSprit 360 orgernize)
- · Cisco network basic

EXTRACURRICULAR & LEADERSHIP ACTIVITIES

- · Vice President, Rotaract Club, Faculty of Engineering, University of Jaffna
- · Member, Debate Team, Bandaranayake College, Gampaha
- · Student Member, Institution of Engineers, Sri Lanka (IESL)
- · Hobby: Playing cricket

REFERENCES

Dr. (Mrs.) J. Jananie

Senior Lecturer Grade II

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Department of Computer Engineering,

Faculty of Engineering, University of Jaffna

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