

DINETH BASURA D.H. Cyber Security Intern

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SUMMARY

Cybersecurity undergraduate at SLIIT with a strong interest in information security and software development. Building a solid foundation in networking, programming, Linux, and security concepts while developing practical skills through hands-on projects. Passionate about cybersecurity, ethical hacking, network security, and secure software development, with an interest in using development skills to build secure and reliable applications.

EDUCATION

BSc (Hons) in Information Technology - Specialization in Cyber Security 07/2024 – 07/2028
Sri Lanka Institute of Information Technology (SLIIT)

PROJECTS (CYBER SECURITY)

Network Port Scanner  06/2026
Python 3.10+, Concurrent Threading , Socket Programming

Developed a comprehensive network security reconnaissance tool built with Python, featuring advanced port scanning capabilities with multiple attack techniques (TCP Connect, SYN, UDP, FIN, XMAS, NULL, and ACK scans). Implemented automated service detection through banner grabbing with protocol-specific probes (HTTP, SSH, FTP, SMTP, MySQL, Redis), OS fingerprinting via TTL and TCP window analysis, and vulnerability assessment through NIST NVD API integration.

TCP Client-Server System  03/2026
C Programming , Socket Programming, Network Communication, Makefile Automation

Developed a robust client-server networking application using socket programming in C with a Python client interface. Implemented bidirectional TCP communication with server-side logging functionality, demonstrating proficiency in low-level network protocols and cross-language systems integration. Built and deployed using Makefiles for automated compilation and deployment.

Password Strength Checker  12/2025
Python

A cross-platform GUI application built with **Python** that provides real-time password strength analysis and cryptographically secure password generation. The tool integrates industry-standard algorithms (zxcvbn and Fisher-Yates shuffling) to deliver actionable security insights and policy-compliant password recommendations.

PROJECTS (FULL STACK)

Online Book Store Applicaton  04/2026 – 07/2026
React, Node.js + Express (RESTful API), MongoDB, JWT-based authentication

Online Book Store is a full-stack JavaScript e-commerce web application that enables users to browse and search books, manage a shopping cart, complete purchases, and for admins to manage inventory. The codebase is implemented entirely in JavaScript and follows modern web-app best practices for APIs, authentication, and responsive UI

Gym Management System  08/2025 – 11/2025
Java 17, Spring Boot, MySQL, Maven

Full-stack Java application for gym operations and member management. Implemented authentication and user access control, RESTful backend services, and database integration. Built features including member registration and profile management, trainer assignment system, membership and payment processing, attendance tracking, and admin dashboards for operational oversight.

PlateX: AI License Plate Detection & Recognition System  02/2025 – 06/2025
Python, YOLOv12, PaddleOCR, Flask, OpenCV

Designed and implemented an AI-powered license plate detection and recognition system using deep learning and computer vision techniques, demonstrating expertise in object detection, OCR, and machine learning model deployment.

TECHNICAL SKILLS

Networking & Security

TCP/IP, TCP Sockets, Client-Server Architecture, Multi-threading, SYN Scanning, Vulnerability Assessment, CVE/NVD Integration, OS Fingerprinting

Tools & Tech

Wireshark, Nmap, Burp Suite, Git & GitHub, Docker, Docker Compose

Programming

Python, Java, C, SQL, JavaScript

Frameworks and Libraries

Spring Boot, Express.js, React, OpenCV, PaddleOCR, YOLOv12

OS

Linux, Kali Linux, Windows

Databases

MySQL, MongoDB

CERTIFICATIONS

- Ethical Hacker (Cisco Networking Academy)

- AI Security & Governance certified - Securi AI

- AI/ML Engineer : Stage 1 – SLIIT

EXTRACURRICULAR ACTIVITIES

- Participated in WSO2 Innovate with Ballerina Hackathon to develop a disaster prediction research tool.
- Member of the SLIIT Taekwondo Team, demonstrating teamwork, discipline, and commitment.