



# THISARA SENADEERA

## 3<sup>rd</sup> YEAR IT UNDERGRADUATE

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👤 [Portfolio](#)

## PROFILE SUMMARY

Motivated third-year IT undergraduate at the University of Moratuwa with a passion for Networking, Cybersecurity, Robotics, and IoT. Skilled in IT concepts and hands-on projects, with strong problem-solving abilities and a commitment to continuous learning, teamwork, and delivering innovative solutions.

## EDUCATION

### University of Moratuwa

2023 - 2027

- BSC (Hons) in Information Technology
- 3<sup>rd</sup> Year Undergraduate
- GPA - 3.01/4.0

### Poramadulla Central Collage

2021

- GCE A/L Examination: **ABC**
- Biological Stream

### Poramadulla Central Collage

2016

- GCE O/L Examination: **A-7, B-2**

## PROJECTS

### Sellaro - E-commerce Website Builder / [GitHub](#) - [Frontend](#), [Backend](#)

- **Description** - Built a multi-tenant e-commerce platform with Stripe integration, customizable templates, product management, and a secure role-based admin dashboard.
- **My Contribution** - Designed and implemented product management and catalog features (creation, listing, categorization, reviews, pagination) to strengthen e-commerce platform functionality.
- **Technical Stack** – Next.js, NestJS, MongoDB, Stripe, Cloudinary, JWT, Figma

### Bun & Run – Smart Food Vending Machine

- **Description** - Developed an innovative fast food vending machine aimed at enhancing convenience and efficiency in the food industry for dine-in and takeaway.
- **My Contribution** - Engineered the food-serving mechanism and electrical wiring, integrating hardware systems and software systems with reliable automation.
- **Technical Stack** – ESP32 microcontroller with MicroPython, Node.js backend, and QR code payments.

### Bathlux – E-commerce Platform for Bathware

- **Description** - A web development project built with HTML, CSS, and JavaScript on the frontend and PHP with SQL on the backend, this e-commerce site allowed browsing, ordering, and inventory tracking of bathware products.
- **Technical Stack** – HTML, CSS, JavaScript, PHP, SQL.

## Secure Enterprise Network Design (Cisco Packet Tracer) / [GitHub](#)

Engineered a secure, highly available enterprise network using Cisco ASA Firewall (DMZ, NAT) and redundancy protocols like HSRP and LACP. Implemented OSPF, SVI for Inter-VLAN Routing, and STP BPDUGuard. Successfully deployed Cisco WLC for multiple WIFI SSIDs and a full VoIP Telephony Service with Cisco Voice Gateways.

## HTTP Packet Analysis and Security Audit with Wireshark / [GitHub](#)

Captured and analyzed HTTP network traffic using Wireshark to demonstrate cybersecurity vulnerabilities, including the transmission of unencrypted data and information leakage. Set up a local Python server to simulate a web application and performed a security audit. The analysis confirmed that sensitive data is vulnerable to interception, reinforcing the importance of HTTPS encryption and secure server configurations.

## DNS Protocol Network Analysis / [GitHub](#)

Conducted a comprehensive network analysis of the Domain Name System (DNS) protocol using Wireshark to identify performance bottlenecks. Captured and filtered network traffic to analyze DNS queries and responses, documenting key findings on query types and response times. The project identified that DNS was a minor bottleneck and suggested that switching to a more efficient DNS provider could improve browsing speed.

## TECHNICAL SKILLS

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### Programming Languages

- Java
- C
- Java Script
- Python

### Web Development

- HTML
- Type Script
- React Js
- Express Js
- CSS
- PHP
- Next Js
- Nest Js

### Database

- MongoDB
- MySQL

### Version Control

- Git

### Network Simulation & Visualization

- Cisco packet tracer

### Packet Analyzers

- Wireshark

### Project Management

- ClickUp

## ACHIEVEMENTS AND CERTIFICATIONS

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- Google Cybersecurity Professional Certificate - Coursera
- Introduction to Cybersecurity - Cisco Networking Academy
- Networking Basics - Cisco Networking Academy
- Introduction to Data Science - Cisco Networking Academy
- Code Rush - 2024 (Participated)
- Code Rush - 2023 (Participated)
- Cisco Certified Network Associate (CCNA) - (Preparing)

## WORKING EXPERIENCES

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- Worked as a supervisor at EFL 3PL Global (June 2022 - Jan 2023)

## REFERENCES

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### Mr. M.D.N. Chandrasiri

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Faculty of Information Technology,  
University of Moratuwa.

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### Mr. Malisha Wimalawardhana

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