



# PATHUM VIMUKTHI

CyberSecurity Engineer Intern

☎ 0740516990

✉ pathum1016@gmail.com

🌐 [pathumvimukthi.online](https://pathumvimukthi.online)

LinkedIn | [PathumVimukthi](#)

GitHub | [Pathum-Vimukthi-Kumara](#)

## ABOUT ME

Undergraduate student at the Faculty of Engineering, University of Ruhuna, with a passion for cybersecurity, and also a competitive programmer, web developer, and enthusiastic problem solver, always eager to take on new challenges and grow through innovation.

## EDUCATION

University of Ruhuna, BSc (Hons) in Computer Engineering

May 2023 Ongoing

**Related coursework:** Software project, Web development, Information security, Computer Architecture, Data structures and Algorithms, Design patterns, Operating System, GUI development, Object Oriented Programming, Databases.

## SKILLS

- **Cyber security:** Web application security, penetration testing.
- **Front-end development:** React, Bootstrap, JavaScript.
- **Back-end development:** Node/Express, Java/SpringBoot.
- **WSO2 technologies:** Ballerina.
- **Databases:** MySQL, MongoDB, MariaDB.
- **DevOps and Cloud computing:** Linux, CI/CD, Docker, Jenkins, and AWS.
- **Tools and technologies:** Metasploit, Nmap, Burp Suite, Git, and Jira.
- **Low-Level Development:** C/C++, Assembly.
- **Soft Skills:** Project Management, Leadership, Adaptability.

## PROJECTS

### Request Management System (For Engineering Faculty (Group Project))

- **Collection:** Gathering and categorizing all complaints from the faculty.
- **Assignment:** Assigning specific complaints to appropriate personnel (administrative or faculty).
- **Monitoring:** Tracking the progress of complaints and resource usage.
- **Resource Allocation:** Ensuring that the necessary resources are available and allocated effectively to address the complaints.
- **Framework Used:** React.js, Tailwind CSS, Nest.

### Volunteer Management Platform (For Connecting Organizations with Volunteers (Group Project))

- **Event Management:** Creating and managing volunteer events with detailed information and scheduling capabilities.
- **Donation Campaigns:** Hosting and managing donation campaigns with platform-wide visibility to maximize reach and impact.

- Backend Architecture: Designed scalable RESTful APIs and core business logic to handle event management, user interactions, and data processing.
- Database Design: Architected and optimized MySQL database schema for efficient data storage, retrieval, and query performance.
- Framework Used: Ballerina, React, MySQL, RESTful APIs.

### Real-Time Phishing Detection Chrome Extension

- Built Chrome extension with ML-powered phishing detection analyzing URLs, email content, and suspicious patterns.
- Developed Flask REST API using scikit-learn for real-time threat analysis.
- Implemented contextual UI warnings (tooltips, banners) to alert users of phishing risks.
- Tech Stack: Python, Flask, scikit-learn, JavaScript, Chrome Extension APIs.

### Other Project

- Budget Tracker Using React.js and Node/Express
- Driving License tracking System Using React.js and Node/Express

## CERTIFICATE

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- Introduction to Cybersecurity (Cisco)
  - CC - Security Principles (ISC2)
  - Cisco Certified Network Associate (CCNA) - Networking Fundamentals(Udemy)
  - Introduction to Penetration Testing (Security Blue Team)
  - Network Enumeration with Nmap (HTB)
  - Linux(HackTheBox)
  - Web Application Security(HackTheBox)
  - Applied ChatGpt for Cybersecurity(Coursera)

## ACHIVEMENTS

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- Won 3rd place from Volcast Ideathon competition organized by Electrical and Information Engineering University of Ruhuna.
  - Achieved 40th place in the Sri Lanka section and 604th globally in the IEEEExtreme 18.0 Programming Competition.
  - Secured 4th place in the Cyber Rush Offensive Capture The Flag (CTF) Competition, organized by the Moratuwa Department of Computer Science & Engineering.
  - Our team 2nd Runner-Up at Coderally 6.0, organized by the IEEE Computer Society of Informatics Institute of Technology.

## EXTRACURRICULAR ACTIVITIES

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- As **Program Team Lead** for Winning Hearts 1.0, coordinated community outreach delivering donations and educational activities to underprivileged students. Served as **Public Relations Member** for IEEE Eminence, building industry partnerships through strategic outreach. Contributed to ECSL projects, HaXtreme 3.0, and Mehewara program coordination.