



PATHUM VIMUKTHI

CyberSecurity Engineer Intern

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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

- Demonstrated web application vulnerabilities including SQL Injection, XSS, CSRF, IDOR, and Command Injection attacks, and implemented security controls to prevent and mitigate these threats.
- Developed a real-time network security dashboard for DDoS attack detection and analysis, flood size calculation.
- Budget Tracker Using React.js and Node/Express.
- Driving License tracking System Using React.js and Node/Express.

CERTIFICATE

- 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)
- AI/ML Engineer- Stage2 (SLIIT)

ACHIVEMENTS

- 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

- 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.