PATHUM VIMUKTHI

Software 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

- **Front-end development:** React, JavaScript , Bootstrap, Tailwind CSS
- **Back-end development:** Node/Express, Java/Spring Boot
- **Mobile development:** Flutter/Dart
- **Cyber security:** Web application security, Penetration testing
- **DevOps and Cloud computing:** Linux, CI/CD, Docker, Ansible, Terraform, Jenkins, and AWS
- **Languages:** Python , Java
- **Databases:** MySQL, MongoDB, Maria DB
- **Tools and technologies:** Git, Agile Development , Jira, Figma
- **Low-Level Development:** C/C++, Assembly
- **Soft Skills:** Project Management, Communication ,Leadership, Adaptability

Projects

Complaint Management System (For Ruhuna Engineering Faculty (Group Project))
- Collection: Gathering and categorizing all complaints from the faculty.
- Assignment: Assigning specific complaints to appropriate personnel (administrative).
- Monitoring: Tracking the progress of complaints and resource usage.
- Tech Stack: React.js,Tailwind CSS , Nest.

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.

Arogya - Software Group Project (ongoing)
- A comprehensive mobile clinic management system developing for the Health Ministry to streamline health report management and queue management through a modern, scalable architecture.
- Spring Boot (Microservices Architecture) | Frontend: Vite, TypeScript | Database: MySQL | API Gateway: Spring Cloud Gateway.

Other Projects

- Complain Management System Mobile Application Using Flutter, Dart, Firebase.

- Demonstrated web application vulnerabilities including SQL Injection, XSS, CSRF, IDOR, and Command Injection attacks, and presented security controls to prevent and mitigate these threats.
- Developed a real-time network security dashboard for DDoS attack detection and analysis, flood size calculation Using Python, Streamlit framework, scapy, pandas, plotly.
- Volunteer Management Platform (For Connecting Organizations with Volunteers (Group Project)) Using React.js and Ballerina.
- Personal Library Management System Using React.js and Spring Boot with DevOps Technologies.
- Driving License tracking System Using React.js and Node/Express.

Certificates

- 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

- Achieved 40th place in the Sri Lanka section and 604th globally in the IEEEXtreme 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.
- Won 2nd Runner Up at Coderally 6.0, organized by the IEEE Computer Society of Informatics Institute of Technology.
- Won 2nd Runner of Volcast Ideathon competition organized by Electrical and Information Engineering University of Ruhuna.

Extracurricular Activities

- Served on organizing committees for Winning Hearts 1.0 (Program Team Lead), IEEE Eminence (Public Relations), and HaXtreme 3.O.
- Contributed to ECSL project for electrical guidance book completion.

Refereces

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