



RAVIDI EKANAYAKA

TRAINEE ENGINEER – SOFTWARE & CYBER SECURITY

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[Ravid Ekanayaka Portfolio](#)

EXPERIENCE

Trainee Cyber Security Engineer

Janashakthi Life PLC

08/2024 - 02/2025 Colombo 02

- Monitoring & incident response
- vulnerability assessment
- Web application penetration testing
- Reporting documenting incidents
- Research & analysis
- Patch management

PROJECTS

File Integrity Monitoring Tool (Windows, Linux)

2024

- Develop the baseline creation module to generate hash values for specified files and directories.
- Implement the integrity checking functionality to compare current file hashes with established baselines.
- Develop the monitoring feature to continuously track directory contents and detect any changes.
- Create a logging mechanism to record details of detected alterations, including file paths and hash values.
- Compatibility with both Windows and Linux operating systems, adapting code as necessary.
- **Technologies: Python | Command-Line Interface | Hashing Algorithms | Windows OS/Linux OS**

Early Warning Landslide Web Application

2023

- Developed a web-based early warning system that predicts landslide risk using machine learning trained on rainfall data, enabling users to input rainfall factors and receive prediction scores.
- Built Flask-based backend APIs to process integrate ML model and chatbot functionalities into a seamless user experience.
- Implemented a machine-learning prediction model using Python, NumPy, pandas and scikit-learn to calculate landslide probability (supervised learning).
- Designed and developed a full front-end web interface.
- Built database-connected system capable of saving rainfall parameters and prediction history, supporting further analytics and user insights.
- **Technologies: Python | Flask | Machine Learning | NLP Chatbot**

SUMMARY

Dedicated Trainee Computer Security Engineer with expertise in penetration testing, systems auditing, and cloud security. I am skilled in identifying and mitigating security vulnerabilities across Windows and Linux environments, leveraging industry-standard tools like Nmap, OWASP ZAP, and the Social-Engineer Toolkit (SET). Proficient in patch management, ensuring systems remain secure by analyzing vulnerabilities, applying suitable patches, and maintaining compliance with industry standards. Adept at risk assessment, security auditing, and incident response, with a focus on proactive defense strategies.

SKILLS

Programming Languages

Java C# Python PHP

Operating Systems

Linux Microsoft Windows Server

Frameworks & Technologies

.Net Flask

Database Management

MySQL MongoDB

Tools & Platforms

Git/GitHub Docker

Cybersecurity & Infrastructure

Cybersecurity Vulnerability Assessment
Patch Management Amazon AWS
Load Balancer Network Protocols

Green House Green House Automation and Monitoring System

📅 2023

- Developed a fully automated IoT-based greenhouse monitoring and control system.
- Implemented microcontroller-based automation using Arduino / USB Board 32 to read sensor values and trigger actuators such as pumps, fans, lighting and valves.
- Programmed automation for temperature & humidity stabilization using dual-fan control via L289 module, and automatic night-time lighting control using LDR.
- Enabled remote monitoring and control of greenhouse conditions using IoT cloud-based connectivity and SMS-based notifications for water levels and irrigation triggers.
- **Technologies: Arduino | C | IOT Cloud**

ABC Cinema Ticket Booking Web Application

📅 2022

- Developed a full-stack Cinema Ticket Booking Web ApplicationImplemented secure online payments by integrating PayPal payment gateway, supporting credit/debit card payments and handling cancel/error states.
- Built customer-interactive UI webpages
- Designed and implemented a database-connected
- Enabled real-time seat availability display, showing available vs. sold-out seats and updating totals dynamically.
- **Technologies: Java | Servlet DB | HTML | CSS | JavaScript**

Online store for a guitar shop - Desktop Application

📅 2021

- Designed and developed a multi-page desktop application using C# and Windows Forms.
- Designed and implemented a relational database using a well-structured ER diagram.
- Designed intuitive UI pages such as: Login / Registration, Home Dashboard, Product Pages (Electric, Acoustic, Accessories), Purchase & Receipt Pages, Contact Us Page
- Implemented real-time feedback messages for successful actions (submit, update, delete)
- **Technologies: C# | .NET | SQL**

Sri Lankan Tourism Website

📅 2021

- Designed structured and responsive web pages using HTML and CSS.
- Developed interactive JavaScript programs for: Calculator operations (+, -, ×, ÷), Extracting birth year from NIC input, Displaying alerts and error message, Developed a PHP-based electricity bill calculation system.
- Designed registration forms with: Text fields, Radio buttons, Dropdown lists, Password validation
- **Technologies : HTML | CSS | JavaScript | PHP**

EDUCATION

BSc (Honors) Computer Security

Plymouth university

📅 2021 - 2024

📍 Pitipana

Diploma in Information Technology & English

Institute of ICBT

📅 2021

📍 Kurunegala

Diploma in English

The English Bank

📅 2021

📍 Giribawa

Diploma in Information Technology

SANMO Computer Institute

📅 2020

📍 Kurunegala

LANGUAGES

Sinhala - Native

English - Professional Working Proficiency

Japanese - Basic (N5)

REFERENCES

MR. JALIYA KUMARASINGHE

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