DINITHA MINSARA SERASINGHE

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PROFESSIONAL SUMMARY

Detail-oriented BSc Computer Security Undergraduate (Expected Graduation: Dec 2025) with expertise in cybersecurity practices, penetration testing, and vulnerability analysis. Proficient in industry-standard tools (Metasploit, Burp Suite, Nmap) for identifying and mitigating security risks, coupled with strong analytical skills to deliver actionable reports. Skilled in full-stack web development (HTML, CSS, JavaScript), built over five secure, user-focused websites. Developed Python-based tools and projects showcased on GitHub, demonstrating problem-solving and coding proficiency. Eager to leverage technical acumen in cybersecurity or web development roles to drive innovation while expanding hands-on experience.

Interests: Machine Learning | Cloud Computing | Mobile App Development | DevOps | React.js

EDUCATION

University of Plymouth, UK	December 2025

Bachelor of Science (B.Sc.) in Computer Security

Thesis Title:
Understanding of fundamental concepts of computer security, including cryptography, network security, and security protocols. Implementation of security measures and defensive strategies to protect computer networks from attacks. Development of secure software applications by applying best practices in security engineering and software development methodologies. Implementation of network defense strategies and secure software development practices.

Royal College, Colombo 07, Srilanka.	November 2020

High School

SKILLS

Technical

- Python
- Java
- JavaScript
- C#
- Low-code Scripting
- .NET Framework
- PowerShell
- Software Development

Cybersecurity
- Penetration Testing
- Endpoint Security
- Splunk
- Chronicle
- Cybersecurity Frameworks
- OS security (Linux, Windows)
- Wireshark
- Burp Suite
- Nmap
- Reverse Engineering
- Metasploit
- Armitage

Web Development
- HTML
- CSS
- MySQL
- Rect.js
- Node.js

Soft Skills
- Critical Thinking
- Problem Solving
- Teamwork
- Excellent Communication

EXPERIENCE AND PROJECTS

- **Comprehensive Python Calculator :** Developed a GUI-based application using tkinter, implementing advanced mathematical operations and user input validation.
- **Password Strength Analyzer :** Built a Python tool integrating regex to evaluate password security, reducing weak password usage by 40% in simulated environment
- **USB Portable Antivirus :** Created a script-driven solution to scan and quarantine threats, leveraging Python and PowerShell for real-time logging and threat mitigation

LANGUAGES

- English
- Sinhala

CERTIFICATIONS

- **SecOps SIEM Fundamentals (Google Cloud, 2025) :** Learned SIEM tools for real-time security monitoring and threat detection.
- **SOAR Fundamentals V6 (Google Cloud, 2025):** Learned about automating incident response workflow
- **Foundation Level Threat Intelligence Analysis (ArcX, 2025)**

REFERENCES

- Dinesh Dilrukshana Senadheera Pathirana, Senior Manager, Ernst & Young, Colombo,+94771055581 dinesh.pathirana@lk.ey.com
- Thushara Asoka Bandara, Administrative Officer, Colombo, +94718081368, sebandara47@gmail.com