Thisak Gunasekara

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Objective

Aspiring Cyber Security Undergraduate with a passion for researching modern technology and problem solving. Eager to leverage academic knowledge and practical experience in Cyber Security to support team efforts, embrace new challenges and contribute to the field through innovative solutions through global collaboration.

Education

Sri Lanka Institute of Information Technology   **Graduating 2027**
BSc (Hons) in IT specializing Cyber Security
Cumulative GPA: 3.78

D.S.Senanayake College, Colombo 07
G.C.E Advanced level Examination: Science stream: 3S   **2022(2023)**
G.C.E Ordinary level Examination: 9A   **2019**

Academic Projects

Student Research Project on Quantum Computing and Cryptography:
- Authored a 25-page paper on the impact of quantum computing on modern cryptographic systems and emerging post-quantum solutions.

Academic Bug Bounty Assessment on Supabase.com:
- The focus of the review was to evaluate authentication flows, session management, and overall security posture to identify weaknesses.

Vulnerable Web Application for a TryHackMe Room, "Cerberus Research":
- Built a realistic R&D lab employee portal that allows learners to safely practice offensive and defensive web security skills. The room teaches how attackers find, exploit, and chain common web flaws, mapped to OWASP Top 10.

Online Banking Platform Project:
- Led a team of 5 to develop a prototype full-stack online banking system with customer and admin web applications.

Microsoft SQL Server Database Projects:
- Led a team of 5 to design and implement working databases in Microsoft SQL Server, including prototypes for an online banking system and a hospital management system.

Personal Projects

- **Encryption Tool (Assembly Language):** Developed a custom encryption program to understand and explore low-level data security.

- **Security Utilities using Python:** Built tools for studying malware detection and system security, through a hash-based malware scanner and a controlled key-logging simulation for educational purposes.

- **TinyGuard:** A privacy scanning Chrome extension created using JavaScript, compliant with Chrome's Manifest V3 framework, to analyze outbound requests and trackers.

Skills

- Cybersecurity tooling: Burpsuite, Nmap, Amass, Shodan, WireShark, Gobuster, Nikto, John the Ripper, OWASP Zap
- Programming and Scripting: C, Python, Bash
- Linux systems administration
- Database Management: Microsoft SQL Server
- Cloud Computing: Azure, AWS (foundational)
- Full-stack development: HTML, CSS, JavaScript, PHP, MySQL (foundational)

Activities

- Assistant Secretary: Interact Club of DSSC (2020-2021)
- Vice-President: Astronomical and Space Science Association of DSSC (2021-2022)
- Vice President: Young Entrepreneurs Club of DSSC (2021-2022)
- Editorial and TV Committee Member: SLIIT Mozilla Firefox Campus Club (2024-present)