HARISH MURUGAN

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PROFILE

- Cybersecurity Analyst at NCS Pte Ltd with hands-on experience in endpoint security and cyber defense.
- Diploma in Cybersecurity and Digital Forensics from Temasek Polytechnic.
- ISC² Certified in Cybersecurity, demonstrating foundational industry knowledge and commitment.
- Completed Certificate in Machine Learning and Data Analytics Using Python from the National University of Singapore.
- Strong interest in AI-driven cybersecurity solutions and AI-driven threat analysis.
- Committed to continuous learning and staying updated with evolving technologies and security practices.

EDUCATION

Diploma in Cybersecurity and Digital Forensics

Temasek Polytechnic   Apr 2019 - Apr 2022

- Successfully completed comprehensive modules like Ethical Hacking and Intrusion Prevention, Forensics in Digital Security, Incident Response and Management, Network Security, Network Technology, Secure Web Applications, Coding and Development Project, Database Application Development, Server Administration and Security, IT Security Management and Audit, and IT Systems Security Essentials.

CERTIFICATES

Certified in Cybersecurity

International Information System Security Certification Consortium (ISC2)   MAY 2025

- The CC certification provides a solid foundation for entry-level cybersecurity roles.
- It demonstrates a basic understanding of cybersecurity principles and practices.
- It can be a stepping stone to more advanced certifications like CISSP.
- It's a valuable asset for individuals looking to enter or advance in the cybersecurity field.

Machine Learning and Data Analytics Using Python

National University of Singapore   MAY 2024

- Perform EDA and data wrangling on various data sources
- Perform ETL processing using DAX to perform calculations
- Use data from insight generation and visualisation to into fitting supervised and unsupervised machine learning models in Python
- Optimise neural networks to identify best parameters settings

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WORK EXPERIENCE

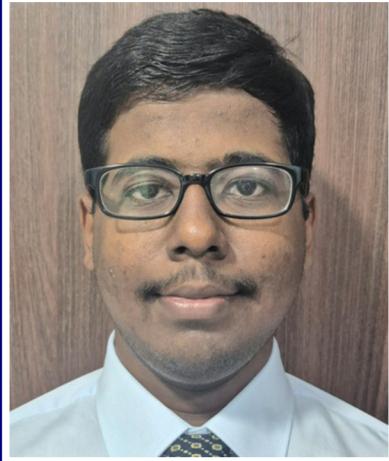### Cyber Analyst - Fusion Programme (Feb 2025)   FEB 2025 - PRESENT
NCS Pte Ltd
- Support in the configuration, installation, and integration of security solutions
- Support in the testing and remediation of vulnerabilities
- Support in problem troubleshooting and resolution
- Support in knowledge transfer and handover of the implemented security solution

System Executive - Student Internship Programme   SEP 2021 - MAR 2022
NCS Pte Ltd
- Collaborated closely with Systems team, DBAs and VM Admins for comprehensive exposure of the environment and understand the corporate process flow and ITIL based procedures
- Undertook a project attachment with Singapore Telecommunications Limited, gaining valuable industry experience.
- Actively interacted with end users to understand and address their needs effectively.
- Implemented robust security policies on endpoint devices to ensure data integrity and protection.

LANGUAGES

Fluent: English, Tamil

PROJECTS

Music Streaming App
Java-based App using Android Studio   YEAR 1 SEM 1
- Module name: Computational Thinking
- Objective: Create an android compatible music streaming app (with limited songs) using Android Studio
- Programming Language: Java, Android Studio

Toppofood - Restaurant Review
Website with SQL Database   YEAR 1 SEM 2
- Module name: Coding and Development Project, Database Application Development
- Objective: Create a Website with a relational database to allow the users to view, add, update, and delete their data
- Coding Language: HTML, CSS, JavaScript, SQL

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PROJECTS

Pixel - Online Shopping Website

Secure Website with SQL Database   YEAR 2 SEM 2
- Module name: Secure Web Applications
- Objective: Create a secure Website with a relational database to allow the users to view, add, update, and delete their data, that is secured against OWASP Top 10 Web Application Security Risks
- Coding Language: HTML, CSS, JavaScript, PHP, SQL

IoT Project

Secure IoT with Mosquitto MQTT   YEAR 3 SEM 1
- Module name: Cloud Security
- Objective: Create a secure IOT System using Docker and Mosquitto MQTT to connect Iot Sensors from IFTTT website to a python-based HTTP server that displays the data from sensors
- Tools and Language: Python, HTML, Docker

SKILLS

Technical Skills:
- Vulnerability Assessment & Penetration Testing - Proficient to conduct VA & PT, using Nessus tools, and remediation is needed
- Data Analytics - Proficient in implementing Data Analytics using Excel, Python & Power Bi
- Cloud Computing - Proficient in implementing Cloud Computing Solutions, with Good knowledge/experience in Azure & AWS
- Python Programming - Proficient in Python to create a secure IOT System, and various Machine Learning methodologies
- Networking - Proficient in networking and network security to come up with a complex network layout with all the necessary security implementation
- Web Development - Proficient in creating 2-tier Web Application Development, using HTML, CSS, JavaScript, PHP, and SQL to create restaurant-review and online shopping websites
- Web App Security - Good understanding of OWASP Top 10 vulnerabilities to secure websites

Generic Skills:
- Effective Communication - Executive Committee of 2018 Greendale Secondary School NPCC Annual Unit Camp (Helped my squad of 20 plan and run the annual camp without any setbacks)
- Critical Thinking - IC of 2018 Secondary 4 Values-In-Action(VIA) Project: Integration of Foreign Student (Effectively identify key issues faced by Foreign and PR students and develop solutions)
- Problem-Solving - Chairperson of 2017 Greendale Secondary School NPCC Annual Unit Campfire (Change of plans, due to Wet Weather, were made and implemented promptly to minimize delay)
- Time Management - Effectively managed preparing NPCC Annual Unit Camp, VIA Project and O Levels