MURUGAN HARISH

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Dear Sir/Maam,

I am writing to express my interest in enrolling in Bachelor of Technology in Computing. With the qualifications mentioned below, I'm sure that I'm eligible for the enrolment. I am very passionate about enrolling in this program as this is the next step I need to take to become a cybersecurity professional.

DIPLOMA: I graduated with a Diploma in Cybersecurity and Digital Forensics in 2022, where I learned many skills like vulnerability assessment, penetration testing, basic digital forensics, steganography, security information and event management, various skills of Security Operations Centre, network security, cloud security in Microsoft Azure and Amazon Web Services, web application security (OWASP Top 10 Vulnerabilities) and endpoint security which includes patching and hardening for Windows and Linux OS.

INTERNSHIP: During the last semester of my Diploma, I did my internship as a System Executive (Intern) at NCS and I have a good understanding of the corporate environment and processes being followed like ITSM-based ticketing and change management in addition to the technical aspects. Collaborated closely with the Systems team, DBAs, and VM Admins during my internship and got practical exposure. Later I was deputed to SingTel, for the implementation of enterprise-wide endpoint security policies.

FULL-TIME: After completing my national service, I re-joined NCS as a Cyber Analyst (under Fusion Program) where I started to work towards my goal. In my time as a Cyber Analyst, I was deployed to 2 major projects for different government agencies. In these projects, I am able to gain hands-on experience implementing endpoint protection software like Trend Micro Vision One Endpoint Protection and configuring hardware-based data leak prevention like Waterfall Data Diode.

CERTIFICATES: I have completed Certificate in Machine Learning and Data Analytics Using Python from the National University of Singapore and ISC2 Certified in Cybersecurity. The certificate from NUS has taught me basic Data Analytics in Excel and Power BI, and scripting basic Machine Learning algorithms in Python, while ISC2 Cybersecurity Certificate helped me acquire deeper & comprehensive understanding, broaden my scope to more aspects of cybersecurity and prepared me for the start of my career.

INTERESTS: I'm interested in improving myself and raising in my career as a cybersecurity professional. This is why I believe that Bachelor of Technology in Computing is the best career choice that I can make as it allows me to get a degree while also working and get real-world experience. The reason I enrolled in the Certifications, even while serving the nation full-time, is to get a head start among my peers and gain more knowledge and skills to become an expert in cybersecurity with some background in ML/AI.

Based on the knowledge and skills that I have gained from my diploma, working experiences, and certificates along with going through the NTU Bridging modules, I am confident that I will be able to adapt quickly to the new work-study lifestyle and use this opportunity to get closer to my goal. Thank you for your time and for considering my profile. I look forward to hearing from you.

Yours Sincerely,
Murugan Harish

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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
- Clients that I worked with:
  - Ministry of Home Affairs (Home Team)
  - Land Transport Authority

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.
- ProActively interacted with end users to understand and address their needs effectively.
- Implemented robust security policies on endpoint devices to ensure data integrity and protection.

WORK-ASSIGNED PROJECTS

Security Operations Center (HT)

Home Team (Ministry of Home Affairs)   MAR 2025 - PRESENT

- Product: Waterfall Data Diode, Waterfall Application (Windows, RHEL)
- Implement data diode to provide security while collecting logs from various Home Team Department
- Configuration of channels and stream agents for systems onboarding their logs to SOC
- Perform troubleshooting together with invidual system's engineers when unable to recieve logs

Cloud Project (LTA)

Land Transport Authority (Ministry of Transport)   MAR 2025 - AUG 2025

- Product: Trend Micro Vision One Endpoint Protection, Rufus API
- Implement Trend Micro agents and sensors to provide endpoint security for all the servers
- Configuration of rufus API for file scanning to check for malware
- Perform troubleshooting together with network engineers when agents are unable to reach V1 Console

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SKILLS

Products or Softwares:

- Trend Micro: Endpoint Protection, Rufus API
- SOC Security: Waterfall Data Diode
- Operating Systems: Windows, Linux (mainly Red Hat Enterprise Linux)
- Programming Languages: Python, Java
- Web Development: HTML, CSS, JavaScript, PHP, MySQL
- Network Devices: Cisco (Routers, Switches, ASA Firewall), Fortinet (Firewall)
- Cloud Platforms: AWS, Microsoft Azure

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

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PERSONAL PROJECTS

Tic Tac Toe

Different Variations of TTT using Python   NTU BRIDGING MODULE CT1001

- Module name: CT1001 - Introduction to Computational Thinking and Programming
- Objective: Create different variations of the Tic Tac Toe game using Python like 3x3: 2 player, 1 player (Difficulty: Easy, Medium, Hard; Start: Human, Computer); 4x4: 2 player
- Tools and Language: Python, Spyder (Anaconda)

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 (Linux)

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, MySQL, NodeJS

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, MySQL Node JS

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 Java to showcase basic understanding for the syntax and computational thinking.
- Programming Language: Java, Android Studio