DULARA ABHIRANDA

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PROFILE

Dynamic IT enthusiast specializing in networking and cybersecurity, currently pursuing a Bachelor of Information and Communication Technology. Advancing through the Cisco Certified Network Associate (CCNA) certification to strengthen expertise in network design, management, and security. Proven success in university-level competitions, demonstrating hands-on proficiency in configuring and securing network infrastructures. Skilled in implementing cybersecurity best practices, threat mitigation, and system hardening across various platforms. Passionate about optimizing network performance and fortifying systems against evolving cyber threats, with a commitment to continuous learning and innovative problem-solving.

EDUCATION

Bachelor of Information and Communication Technology specilzed in Networking   **Jun 2022 - Present**
Faculty of Technology, University of Sri Jayewardanapura
- Specialized in Networking Technology with a GPA of 3.41, focusing on networking concepts, design, and implementation, with hands-on experience in building and configuring networks.

Cisco Certified Networking Academy   **May 2024 - Present**
Sri Lanka Institute of Information Technology (SLIIT)
- Gaining in-depth knowledge of the updated curriculum, including network fundamentals, switching and routing concepts, network security, IPv4/IPv6 addressing, VLANs, WAN technologies, and network automation, with hands-on practice in configuring and troubleshooting real-world network scenarios.

Advanced Level Examination 2020   **2018 - 2020**
Ch/ Senanayake National College, Madampe
- Achieved AAB in the Engineering Technology stream with a Z-Score of 2.44, securing 3rd place in the district and earning recognition on the island merit list.

SKILL SUMMARY

- Network design, configuration, and troubleshooting (Cisco, Juniper)
- Routing and switching (OSPF, EIGRP, VLANs, STP)
- Cloud networking (AWS, Azure, Google Cloud)
- Network security (firewalls, IDS/IPS, VPNs)
- **Operating Systems**: Windows, Linux (Ubuntu, Kali), Mac OS
- **Security & Networking Tools**: Wireshark, Nmap, Metasploit, Putty
- **Virtualization**: VMware, VirtualBox
- Wireless networking and firewall configurations

PROJECTS

Mobile Application Development   **CAREERPULSE**(Group Project)
- Developed a mobile app for university students to find internships, allowing CV uploads, job preference selection, keyword analysis for CV improvement, and personalized internship recommendations via LinkedIn API integration.
- Deployed the system on the cloud for scalability and accessibility.
- Technologies Used: Flutter, Firebase, GPT APIs, Git, Azure.

NETWORK CONFIGURATION PROTOTYPES   **Cisco Packet Tracer Projects**
- Engineered multiple network configuration prototypes using Cisco Packet Tracer, tailored to various use cases.
- Designed and implemented network configurations across all layers (L1, L2, L3), ensuring comprehensive coverage of network fundamentals and advanced configurations.
- Configured and managed key network services such as DHCP and DNS servers, enhancing network functionality and reliability.Developed detailed network device configurations and topologies, demonstrating proficiency in network design and optimization.
- Technologies Used: Cisco Packet Tracer, wireshark

Cybersecurity Simulation Tool   **CREEDSTROM**
- Simulated DDoS-like attacks to test system resource limits and defense mechanisms.
- Integrated an interactive defense challenge to halt the simulation.
- Technologies Used: JavaScript, Electron, GitHub.

Smart Cafeteria Automation System   **ARDUINO PROJECT**(Group Project)
- Built an IoT-enabled cafeteria automation system, incorporating real-time communication for streamlined operations.
- Technologies Used: IoT devices, Python.

Resume Keyword Extract ML Model   **MACHINE LEARNING**
- Created a machine learning model to extract and analyze keywords from resumes, identifying key skills and areas for improvement to optimize resume evaluation.
- Technologies Used: Python, Kaggle Notebook.

CERTIFICATIONS

Cloud Computing
- Azure Fundamentals (SC-900) – Focused on security, compliance, and identity management in Azure.
- Microsoft 365 Copilot Learning Path – Explored AI integration within Microsoft 365.
- AWS Cloud Computing – Hands-on experience in setting up and managing Virtual Private Clouds (VPC) and generative AI applications.
- Create a Virtual Private Cloud (VPC) Using AWS (Coursera) – Deepened understanding of VPC networks, their advantages, and best practices.
- Introduction to Networking and Cloud Computing (Microsoft, Coursera) – Covered fundamental networking and cloud computing concepts.

CyberSecurity
- ISC2 Cybersecurity Certification (CC) – Covered five core domains of cybersecurity.
- Cisco Ethical Hacking – Gained foundational knowledge of ethical hacking practices.
- Introduction to Cybersecurity Tools and Cyberattacks (IBM) – Explored tools and techniques to identify and respond to cyber threats.
- Foundations of Cybersecurity (Google) – Focused on key concepts and principles of cybersecurity.

Networking
- Exploiting Wired and Wireless Networks: In-depth exploration of security vulnerabilities in both wired and wireless network infrastructures.
- Introduction to Packet Tracer Academy: Mastered simulation and visualization techniques for network behavior using Cisco Packet Tracer.
- CCNA: Switching, Routing, and Wireless Essentials (SRWE): Comprehensive understanding of the architecture, components, and operations of routers and switches in a small network.

COMPETITIONS & ACHIEVEMENTS

- 2nd Runners-up in the SLIIT Codefest NetCom Competition, showcasing advanced network configuration skills and teamwork.
- Innovate with Ballerina Coding Challenge: Built a chat application using Ballerina, showcasing skills in real-time communication and collaborative problem-solving, organized by IEEE Student Branch of the University of Moratuwa and WSO2.
- Participated in the 10th Annual Cyber Security Summit 2024 CTF Challenge as part of Team Code Alphaz, showcasing teamwork and cybersecurity skills to tackle complex challenges.
- Finalist in the SLIIT Codefest CTF, demonstrating advanced problem-solving and cybersecurity expertise.

EXPERIENCE & VOLUNTEERING

Vice President (Event Division)
Information and Communication Technology Society
OCT 2024 - Present
- Executed a series of engaging workshops that increased student participation by 40%, specifically targeting essential ICT competencies while fostering collaboration with local tech professionals for added insights.

Assistant Surveyor
GLOBAL GIS PVT LTD. Nugegoda, Sri Lanka
APR 2022 - MAY 2023
- Gained professional organizational experience, mastering responsibility management and career-life balance. Contributed to accurate mapping and infrastructure projects through data analysis, while enhancing teamwork, communication, and deadline management skills.

Event Coordinator
Japura CryptX 1.0
DEC 2024 - FEB 2025
- Work as event coordinator in Japura CryptX 1.0 organized by ICT societ in University of Sri jayewardenepura. Ine here execute three events Hackthon, CTF and Designathon for Sri Lankan University undergraduates

Member
IEEE Student Branch, University of Sri Jayewardenepura
MAY 2023 - Present
- Actively participated in IEEE activities, promoting technological innovation and professional growth while collaborating on technical projects and knowledge-sharing initiatives.

REFERENCE

Dr. Nalaka Lankasen	**Dr.Nuwan Kuruwitaarachchi**
PhD, MCS(SL), MCIM(UK)	Senior Lecturer
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