

JANITH DESHAN

Cybersecurity Undergraduate | Network Security • Penetration Testing • Secure Application Development

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SUMMARY

Cybersecurity undergraduate at SLIIT specializing in network security, penetration testing, and secure application development. Ranked top 7% globally on TryHackMe. Builds full-stack and AI-integrated systems, most recently an AI shopping assistant recognized in a national developer competition.

EDUCATION

BSc (Hons) Information Technology – Cyber Security

Sri Lanka Institute of Information Technology (SLIIT), Malabe

Jun 2024 – Jul 2028 | Year 3, Semester 1

G.C.E. Advanced Level

Mahanama College, Colombo 03

2023

TECHNICAL SKILLS

Programming: Python, Java, C/C++, JavaScript / TypeScript, SQL

Frontend: HTML5 / CSS3, React.js, Next.js

Backend: Spring Boot, Node.js, Flask, Vercel AI SDK

Databases: MySQL, MongoDB, SQLite, Supabase, Firebase

Security & Networking: Penetration Testing, Vulnerability Assessment, Network Security, Digital Forensics, Cryptography, OWASP Top 10, Nmap, Burp Suite, Metasploit, Wireshark

Cloud & AI: GCP, Git, Model Context Protocol (MCP), Google Gemini API, TensorFlow, Keras

Hardware & IoT: Arduino, IoT Sensors, Cisco Packet Tracer

Systems: Linux, Kali Linux, System Administration, Bash Scripting

PROJECTS

Kapruka AI Shopping Agent | *Next.js 15, TypeScript, Vercel AI SDK, Google Gemini 2.5 Flash, MCP*

- Engineered a multi-modal shopping assistant integrating Gemini 2.5 Flash via the Model Context Protocol (MCP) for conversational product search and comparison.
- Recognized among 700+ national entrants with a Certificate of Participation (Builder track), Kapruka Holdings PLC, July 2026.

Repo: github.com/janiyax35/kapruka-shopping-agent

ByteX Customer Care System | *Java 17, Spring Boot, MySQL, Thymeleaf, Maven*

- Delivered a full-stack support platform for 6 user roles on a layered Spring MVC → Service → JPA architecture, covering ticketing, repairs, and inventory.
- Automated stock monitoring and reordering thresholds, cutting manual purchase-order tracking.

Repo: github.com/janiyax35/ByteX-Customer-Care-System

Enterprise Network Architecture Design | *Cisco Packet Tracer, OSPF, VLANs, Firewalls*

- Architected a secure 3-floor network for 75+ workstations, servers, and IoT devices using VLAN segmentation and /27 subnetting across 6 departments.
- Hardened wireless and remote access with WPA2/WPA3 encryption, VPN configuration, and centralized firewalls.

Repo: github.com/janiyax35/Enterprise-Network-Architecture-Design

BarkID – Dog Breed Identifier | *Python, Flask, TensorFlow, Keras, ResNet50V2*

- Developed an AI web app classifying 120+ dog breeds via a gatekeeper filter plus a ResNet50V2 classifier.
- Increased prediction accuracy using transfer learning, data augmentation, and Test-Time Augmentation on the Stanford Dogs dataset.

Repo: github.com/janiyax35/Dog-Breed-Identifier

Intelli-Home – IoT Home Automation System | *Arduino, C++, IoT Sensors*

- Created an Arduino-based smart home system for remote/voice control with automated environmental monitoring.
- Implemented real-time control logic that triggers device responses from live sensor data.

Additional Projects

- Marry-Mate (Java, OOP): wedding and vendor management platform built on custom OOP data structures.
- CryptoGuard & CyberGuard Tools: deployed cryptography and security-tooling suite with a live web interface.
- AquaTest-ML-App (Python, ML): pipeline predicting water quality metrics from environmental datasets.

ACADEMIC RESEARCH

IoT Security: Smart Device Vulnerabilities, Botnets, and Future Risks

Individual Research Paper | IE2092: Introduction to Cybersecurity | SLIIT, Year 2 Semester 2, 2026

- Traced IoT security's evolution from pre-2016 negligence through the Mirai botnet watershed (600,000+ devices, 1.2 Tbps DDoS) to today's expanded attack surface.
- Analyzed five emerging threats — AI-driven botnets, Zero Trust architecture, 5G/edge risks, new regulation, quantum threats — using peer-reviewed and government sources (NIST, Veracode).

CERTIFICATIONS & ACHIEVEMENTS

Kapruka Agent Challenge 2026 – Certificate of Participation (Builder)

Kapruka Holdings PLC, July 2026 — one of 700+ developers across Sri Lanka to submit a working agent on the Kapruka MCP.

TryHackMe

- Top 7% global ranking • 133-day streak • 62 rooms • 12 badges earned.
- Completed "loveatfirstbreach" and "Pre Security (Legacy)" paths (Feb 2026); AI Security and Cyber Security 101 in progress.

Cisco Networking Academy & Google Cloud Skills Boost

Introduction to Cybersecurity, Networking Basics (in progress) • Google Cloud Arcade Badges: Level 1–3 (2025-CH2).