Rounak Pradhan

PERSONAL INFORMATION

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CAREER OBJECTIVE

I aim to pursue a Masters degree in Information Technology to strengthen my knowledge in secure system design, network security, and web applications. I hope to contribute research and innovative projects, applying my skills in programming, penetration testing, and cloud security to practical, real-world challenges.

EDUCATIONAL BACKGROUND

BSc (Hons) Networking and IT Security   (2022-2025)
Islington College
(Affiliated with London Metropolitan University)
Kamal Marg, Kamalpokhari, Kathmandu

A-Level   (2019-2021)
Chelsea International Academy
Cambridge University
Lakhechaur Marg, Mid Baneshwor, Kathmandu

SEE   (2019)
Sayapatri English Secondary School
NEB
Ramgram 3, Parasi, Nawalparasi

WORK EXPERIENCE

Tanvi Tech
IT Company
Security Analyst Intern

- Assisted in identifying and mitigating security vulnerabilities in web apps and networks.
- Conducted penetration testing and security assessments to enhance system protection.
- Analyzed security incidents and document findings to improve threat detection.
- Worked with security tools such as Burp Suite, Wireshark to test and strengthen cybersecurity defenses.
- Researched and implemented security best practices to safeguard sensitive data.

Dynamic Technosoft
Technical Support
ERP Software Company

Quality Assurance
- Conducted thorough testing of ERP software to identify bugs and errors, improving overall system reliability.
- Created detailed reports outlining discovered issues and recommended changes.
- Collaborated with the development team to implement necessary fixed and improvements, ensuring timely resolutions of issues.
- Ensured that software met quality standards before release, maintain user satisfaction.
- Tested software bugs using SQL queries to validate data integrity and system performance.

Support Executive
- Conducted training sessions for new clients on ERP software through detailed presentations.
- Guided Clients in effectively utilizing the software to address their business needs and maximize efficiency.
- Managed Customer support calls, diagnosing and resolving technical issues promptly.
- Tracked recurring problems and provided solutions to enhance user experience.
- Assisted in the onboarding process of new clients, ensuring a smooth transition.

SKILLS

Technical Skills

Programming Language:	Java, Python, SQL, JavaScript
Networking and Security:	Cisco, TCP/IP, DNS, DHCP, Firewall
Application and Software:	Cisco Packet Tracer, GitHub, Trello, AWS, Azure, Docker, Visual Studio Code, Ms-office
Operating Systems:	Linux, MacOS, Windows, Android, iOS

Soft Skills

Communication
Project Management
Problem Solving

Projects:

Final Year Project
Web Application Penetration Testing Framework
- Designed and developed a GUI-based web application security assessment framework using Python and Tkinter.
- Integrated multiple security assessment tools into a single automated workflow.
- Implemented automated vulnerability detection and structured reporting
- Designed a dashboard to visualise scan results for analysis and documentation.
- Focused on improving efficiency and consistency of web application security testing.

E-commerce Website

HTML, CSS and Javascript

- Developed a fully functional blog page as a part of an Information Systems website project.
- Utilized HTML to structure the content, CSS for styling and layout design, and Javascript for dynamic functionality.
- Implemented features such as post creation, editing, and deletion, as well as interactive elements to enhance user engagement.
- Collaborated with team members to integrate the blog page with the overall website, ensuring a cohesive user experience.
- Tested and debugged the blog page to ensure it met project requirements and performed optimally across different browsers and devices.

SQLi Injection Attack

Burpsuite and Port Swigger

- Implemented Union-based, Error-based and Blind SQL Injection techniques.
- Employed PortSwigger and Burpsuite to identify and exploit vulnerabilities.
- Showcased methods to enhance database security by addressing identified vulnerabilities.
- Applied Brute force techniques to test the resilience of authentication mechanisms and demonstration strategies to secure against such attacks.

Bank Card Management System

Java

- Developed a comprehensive Bank Card Management System using Java and the BlueJ IDE.
- Implemented multiple class to represent different types of bankcards.
- Demonstrated Object oriented programming principles such as inheritance, polymorphism, and encapsulation.
- Utilized ArrayList to manage collections of bank card objects, enabling dynamic storage and retrieval.
- Used Java Swing for creating a GUI to interact with the bank card management system.

Certifications:

•	AWS Academy Data Center Technician	(02/2024 - 03/2024)
•	AWS Academy Cloud Security Builder	(02/2024 - 03/2024)
•	AWS Academy Cloud Security Foundations	(02/2024 -03/2024)
•	AWS Academy Cloud Operations	(02/2024 -03/2024)
•	AWS Academy Cloud Foundations	(02/2024 -03/2024)
•	Introduction to Cyber Security (TryHackMe)	(11/08/2024)
•	Pre Security (TryHackMe)	(12/08/2024)
•	Web Fundamentals (TryHackMe)	(27/08/2024)
•	Jr Penetration tester (TryHackMe)	(20/10/2024)
•	CompTIA Pentest+ (TryHackMe)	(06/11/2024)

Languages:

- English, Nepali, Hindi