

Mausam Rai

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PROFILE

Passionate about pursuing a career in a Cybersecurity and Networking field, with a keen interest in applying skills to opportunities that enhance knowledge while contributing to the success of an organization. Committed to leveraging this journey to create robust and secure digital environments.

EDUCATION

- Bsc (Hons) Computer Networking and IT Security** Feb 2023 - Present
Islington College
London Metropolitan University
Kamalmarg, Kamalpokhari, Kathmandu
- SLC** 2020 - 2022
British Gurkha College
National Examination Board (NEB)
Chakrapath, Kathmandu

EXPERIENCE

- Graphic Design Intern** 2024 – Present
Innovate Tech, Kathmandu
- Contributed to the design and creation of engaging and visually appealing ebook for student.
 - Utilized graphic design software (e.g., Adobe Illustrator, Indesign, Photoshop) to create illustrations and page designs.
 - Collaborated with team and management to complete project on time.

PROJECTS

Exploring SQL Injection: Identification, Exploitation, and Defense Mechanisms

- This project focuses on analyzing SQL injection attacks, a prevalent threat to web application security. It explores how SQL injection exploits vulnerabilities in web applications, demonstrates attack techniques, and evaluates various mitigation strategies. The study includes practical examples, real-life case studies.

Inventory Management and Billing System

- Built using: Python**
- This project involved developing and management system that manages inventory of rental equipment , calculate rental fees and fines based on number of days it was rented for and generates invoices for renting and returning operations and updates inventory records in text files.

Student Management System

- **Built using:** Java and Object-Oriented Programming principles
- This project involved developing a Student Management System. The core component, the StudentGUI class, allows users to manage student information through a graphical user interface with functionalities such as adding students, calculating percentages, granting certificates, paying bills, and removing students.

SKILLS

Technical Skills

- Programming Languages: Python, Java
- Operating Systems: Linux
- Cybersecurity: Burp suite, Cryptography, CTF, ELK stack
- Networking: Switching and Routing, CISCO
- Designing: Indesign, Illustrator, Photoshop

Soft Skills

- Research and Analysis
- Presentation
- Teamwork
- Communication

CERTIFICATIONS & LICENSES

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| • <u>ISC2 Certified in Cybersecurity</u> | 2024 |
| • <u>AWS Academy Cloud Operations</u> | 2024 |
| • <u>AWS Academy Cloud Security Foundations</u> | 2024 |
| • <u>AWS Academy Data Center Technician</u> | 2024 |
| • <u>AWS Academy Machine Learning for Natural Language Processing</u> | 2024 |
| • <u>Introduction to Cybersecurity</u> | 2024 |
| • <u>Introduction to Digital Forensics</u> | 2024 |

REFERENCES

Monil Adhikari

Module Leader and Senior Lecturer
Islington College, Kathmandu
Lead Researcher at Cybersecurity Research Hub
Kamalmarg, Kamalpokhari, Kathmandu
Email: monil.adhikari@islingtoncollege.edu.np
Relationship: Academic Advisor and Course Instructor