

Mausam Rai

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PROFILE

Cybersecurity and networking enthusiast with hands-on experience securing systems and troubleshooting networks. Skilled in learning new tools and techniques to identify weaknesses, strengthen defenses, and maintain reliable environments. Passionate and collaborative, ready to contribute to building more secure, robust infrastructure.

EDUCATION

- Bsc (Hons) Computer Networking and IT Security** Feb 2023 - June 2025
Islington College
London Metropolitan University
Kamalmarg, Kamalpokhari, Kathmandu
- SLC** 2020 - 2022
British Gurkha College
National Examination Board (NEB)
Chakrapath, Kathmandu

EXPERIENCE

Security Research Analyst Trainee October 2025 - Present
SecureIQLab, Kathmandu

- Conducted security validation for third-party vendor products, identifying gaps in security posture and functional performance.
- Conducted research into emerging cyber threats and attack surfaces to stay ahead of industry trends and improve test coverage.
- Supported in refining documentation and research briefs to support data-driven decision-making and product improvements.

Associate Security Researcher May 2025 - August 2025
Dolpo Security Lab, Kathmandu

- Conducted in-depth vulnerability assessments and penetration testing to identify and mitigate security risks in systems and applications.
- Analyzed and investigated security threats, including malware, phishing, and network intrusions, to enhance organizational defenses.

Red Team Intern November 2024 - February 2025
Cyber Security Research Hub, Kathmandu

- Assisted in conducting penetration testing, and vulnerability analysis to identify potential threats.
- Collaborated with the security team to simulate real-world attack scenarios and document findings for mitigation strategies.

- 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

NovaAegis (1st Runner-Up of Islington College Hackerthon 2025)

- AI-driven cybersecurity platform combining email phishing defense, honeypot-based attack capture, and automated exploit analysis for rapid incident response.
- Unified dashboard with integrated IAM monitoring for continuous threat insight.

HoneyShade: Hybrid Honeypot System

- Hybrid honeypot combining Cowrie SSH and a vulnerable web application to capture and analyze attacker interactions in real time.
- Secure Bastion Host pipeline forwarding logs to ELK and metrics to Prometheus/Grafana, enriched with MISP threat intelligence.
- AI-driven incident response module using OpenAI API to generate attack summaries and targeted remediation recommendations.

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.

SKILLS

Technical Skills

- Programming Languages: Python, JavaScript
- Scripting Language: Bash
- Operating Systems: Windows, Linux
- Tools: Burp suite, Metasploit
- Networking: Switching and Routing
- Designing: Indesign, Illustrator

Soft Skills

- Research and Analysis
- Presentation
- Teamwork
- Communication
- Critical Thinking
- Project Management

CERTIFICATIONS & LICENSES

- **ISC2 Certified in Cybersecurity** 2024
- **AWS Academy Cloud Operations** 2024
- **AWS Academy Cloud Security Foundations** 2024
- **AWS Academy Data Center Technician** 2024
- **AWS Academy Machine Learning for Natural Language Processing** 2024
- **Introduction to Cybersecurity** 2024
- **Introduction to Digital Forensics** 2024

REFERENCES

Available upon request.