

# Pratick Khadka

## Aspiring Security Professional

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Dedicated enthusiast with a foundation in Cybersecurity and Computer Networking seeking a carrier in the field Vulnerability Assessment and an Penetration Testing and Web Application and Penetration Testing. Committed to utilizing my skills in VAPT and WAPT to assist in identifying threats, Weakness and Risk . Dedicated to contributing for the team while gaining hands-on experience and further developing my expertise in advanced security practices.

## EXPERIENCE

### CYBERSECURTY AND NETWORKING INTERN

Teku, Kathmandu

CloudSewa

Nov, 2024 - Feb, 2025

- Performed Vulnerability Assessment and Penetration Testing (VAPT) on web applications and cloud environments to identify and mitigate security risks.
- Configured and managed network devices, including Firewalls, Routers, and Switches, ensuring optimal security and performance.
- Diagnosed and resolved network, hardware, and software issues to maintain seamless IT operations.
- Deployed and managed cloud infrastructure, including Amazon S3 and EC2 instances, optimizing security configurations.
- Implemented and enforced security policies in accordance with CIS Benchmark guidelines to enhance compliance and system integrity.

### IT Intern in Network Operation Center and IT support

Kamalpokhari, Kathmandu

Islington College

Jan, 2024 - Aug, 2024

- Diagnosed and resolved hardware and software issues to ensure optimal system performance.
- Monitored and analyzed network devices, including switches, access points, routers, and attendance systems, using Nagios.
- Maintained and managed lab infrastructure, ensuring seamless hardware and software functionality.
- Configured and managed MikroTik routers, implementing basic network setups and optimizations.
- Performed foundational switch configurations on Cisco devices to enhance network eefficiency and security.

## EDUCATION

### BSc Hons Computer Networking and Information Technology

Kathmandu

Islington College

Nov, 2022 - Present

London Metropolitan University Kamalpokhari,  
Kathmandu

### +2 Management

Kathmandu

The Chandbagh School

May, 2020 - May, 2022

Nepal Examination Board (NEB)  
Basbari, Kathmandu

### SEE

Kathmandu

Valley Public Higher Secondary School

Oct, 2007 - Jul, 2020

Nepal Examination Board (NEB)  
Sundarbasti, Bhangal, Kathmandu

## PROJECTS

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### Report on Cross Site Request Forgery :

- Analyzed Cross-Site Request Forgery (CSRF) vulnerabilities and their impact on web applications.
- Identified common in website and some mitigation measures.
- Researched and implemented active mitigation techniques to prevent CSRF exploitation.
- Conducted hands-on simulations on Port Swigger to demonstrate CSRF attack scenarios and their consequences.

### Ransomware Investigation

- Developed a basic ransomware prototype in Python for research and educational purposes.
- Performed static analysis using tools such as VirusTotal, Hybrid Analysis, and reverse engineering techniques.
- Conducted dynamic malware analysis utilizing Cuckoo Sandbox, Wireshark, and Any.Run.
- Investigated phishing attacks through email forensics, analyzing malicious attachments and embedded threats.

## TRAINING/CERTIFICATIONS

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### Practical Ethical Hacking

2024

#### TCM Security

- Acquired skills in conducting penetration testing for web applications, network infrastructures, and Active Directory environments.
- Developed proficiency in using tools like Amass, Sublistter, Nikto, FFuF, and Wfuzz for reconnaissance and vulnerability assessment.
- Gained foundational expertise in web, network, and Active Directory security testing.
- Gained experience in identifying security vulnerabilities and providing remediation recommendations for enhanced system security.

### Network Defense

2024

#### Cisco

- Strong understanding of Access Control Lists (ACL) and Defense-in-Depth security strategies.
- Knowledge of cloud security principles and Firewall technologies for securing network environments.
- Familiarity with network segmentation and Filtering to enhance security posture.
- Proficient in implementing security best practices to mitigate unauthorized access and threats.

### Practical Web Hacking

2024

#### TCM Security

- Gained in-depth knowledge of the OWASP Top 10 security risks and their impact on web applications.
- Analyzed common web vulnerabilities, including injection attacks such as SQL Injection (SQLi), Cross-Site Scripting (XSS), Command Injection, and Template Injection.
- Explored authentication insecure direct object references (IDOR), and their exploitation methods. Testing of
- JWT tokens and Cookies.

### FCF - Introduction to the Threat Landscape 2.0 Self-Paced

2024

#### Fortinet

- Understanding basic security tools like Firewalls, Sandbox, SOAR, SIEM, IDS/IPS, and Antivirus.

## SKILLS

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Operating Systems: Windows and Linux, Offensive Security (Nmap, Metasploit, Hydra, John the ripper, Burpsuite ), Knowledge in OWASP Top 10 Web Application Security Risks and Vulnerabilities, Web Application Testing (Bug hunting and VAPT), Web Security: Basic understanding of common security threats and best practices, Troubleshooting: OS, Network devices, System Configuration, Troubleshooting and Installation, and Basic Azure and Devops.

REFERENCES

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<b>Prabin Sharma</b> - <i>ING Infrastructure Head</i>	<b>Jenif Shrestha</b> - <i>IT Officer</i>	<b>Manogya Pokharel</b> - <i>IT Officer</i>
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**Shubhashish Tamrakar** - *IT Officer*

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