



Samshrita Ghimire

📍 **Home** : Suryabinayak-01, 44809, Bhaktapur, Nepal

✉ **Email**: samshritaghimire@gmail.com 📞 **Phone**: (+977) 9863329378

🌐 **Website**: www.samshritaghimire.com.np/

Date of birth: 23/07/2001 **Nationality**: Nepalese

WORK EXPERIENCE

Genese Solution

City: Lalitpur | **Country**: Nepal

[25/10/2024 – Current] **Associate Cybersecurity Engineer**

- Deployed and managed Wazuh for SOC monitoring, incident response, and compliance reporting.
- Conducted VAPT for Class B and C banks, identifying vulnerabilities in internal systems and apps.
- Used Cyfirma for dark web monitoring, aiding a Class A bank in detecting data leaks and improve its cyber resilience.
- Deployed and managed Crowdsrike SIEM to monitor, detect, and respond to incidents, aligning with ISO27001 and Cyber Essentials compliance frameworks.
- Collaborated with DevOps and Infrastructure teams to promote secure architecture practices in software development, patch management, and server hardening.
- Led penetration testing and provided remediation strategies to enhance security posture.
- Supported incident response as part of a 7-member SOC team.
- Led knowledge-sharing sessions on topics such as Apache and NGINX servers, website hosting practices, and SSL certificate configuration.
- Delivered concise technical reports and risk assessments to stakeholders.

Focusone Payment Solutions (MOCO)

City: Kathmandu | **Country**: Nepal

[08/09/2024 – 16/10/2024] **Infrastructure Engineer Trainee**

- Gained experience in deploying, configuring, and managing servers, storage systems, and virtualization platforms to support enterprise applications.
- Enhanced system reliability and security through monitoring, performance tuning, and implementation of disaster recovery solutions

Code Rush Pvt Ltd

City: Lalitpur | **Country**: Nepal

[23/12/2023 – 07/08/2024] **Cloud Security Engineering Apprentice**

- Familiarized with user and group management, security hardening, and shell scripting in Linux.
- Gained strong understanding of networking principles for identifying and mitigating network vulnerabilities.
- Improved application security using OWASP Top 10 and penetration testing fundamentals.

EDUCATION AND TRAIN-
ING

[01/12/2019 – 07/05/2024]	Bachelor's in Computer Engineering <i>Tribhuvan University- Institute of Engineering</i> https://ioe.tu.edu.np City: Kathmandu Country: Nepal Level in EQF: EQF level 6
[01/05/2024 – Current]	Data Fellowship <i>Datacamp X Code for Nepal</i> www.datacamp.com City: Remote Country: Nepal

CERTIFICATIONS

[23/02/2024 – 23/02/2027]	AWS Certified Cloud Practitioner Link: https://www.credly.com/badges/2224897c-a06f-4e8d-a6e5-7cb853db6e3a/public_url
[12/07/2024 – 12/07/2027]	CompTIA Security+ Link: https://www.credly.com/badges/6bafc5d7-0fd7-4cb7-8981-b3eccba36f94/public_url

DIGITAL SKILL

Data Visualization & Analysis – Matplotlib, Seaborn, Plotly, Tableau, Statistical Methods (Regression, Clustering)
Programming & Scripting: Python, C++, JavaScript, Bash, SQL
Machine Learning for Language – Text Classification, Sentiment Analysis, Word Embeddings , Transformers
Data Management & Metadata – SQL/NoSQL Databases, XML/JSON
Networking Protocols - OSI, TCP/IP, UDP, DNS, FTP, SSH, SSL/TLS, HTTP
Security Tools - IDS/IPS, firewalls, SIEM, Endpoint Protection (CrowdStrike), SOC(WAZUH)
Penetration Testing - OWASP Top 10, DVWA, Burp Suite, Nessus, OpenVAS, Nikto

PROJECTS

Monument Recognition System The Monument Recognition Application is a mobile app driven by machine learning and object detection technology. It enables real-time identification of historical monuments using your phone's camera. Additionally, it provides in-depth information about the recognized monuments. Link: https://github.com/samshrita/Monument-Recognition-System
Deepfake Video Detection System The DeepFake Detection Web Application is a web application designed to identify whether uploaded videos are authentic or deepfake.

The detection model is based on CNN with LSTM architecture that scrutinizes the temporal facial movement characteristics within videos to determine their authenticity. The model is trained on the preprocessed dataset. The dataset is preprocessed by resizing, cropping face area and extracting landmarks, blendshapes and facial crops from the cropped face. Further, the model is tested to ensure its effectiveness and performance.

Link: <https://github.com/samshrita/Deepfake-Video-Detection->

Breast Cancer Detection

This project leverages Machine Learning and Data Science techniques to develop a predictive model for breast cancer detection. It focuses on analyzing diagnostic data to classify tumors as benign or malignant with high accuracy. The goal is to aid early detection and improve patient outcomes through data-driven insights.

Link: <https://github.com/samshrita/Breast-Cancer-Detection>

Password Strength Evaluator App

This app evaluates the strength of user-provided passwords using advanced algorithms, assessing parameters like length, complexity, and entropy. It provides real-time feedback and suggestions to create secure and robust passwords. The goal is to enhance user security by promoting stronger password practices.

Link: <https://github.com/samshrita/Password-Strength-Evaluator>

SOCIAL ACTIVITIES AND VOLUNTEERING

Sports

Inter College Futsal First Runner Up - 2023 🏆

Intra College Futsal Champion - 2022, 2023 🏆

[06/12/2024 – Current]

Board Member of Youth Echo Nepal

Led and organizing the Internet Safety Programme across Bhaktapur schools, aiming to equip students with essential digital literacy and cybersecurity awareness.

Played a key role in the formation and launch of two major youth platforms: Youth Entrepreneurship Forum and Bhaktapur IT Club, fostering innovation, networking, and opportunity creation.

Co-led the successful conduction of the Youth Entrepreneurship Summit, bringing together aspiring entrepreneurs, mentors, and investors to cultivate a startup mindset and explore real-world business solutions.

Actively involved in advocacy, event planning, and strategic development to support youth empowerment initiatives.

[2023 – Current]

Secretary at Siru Youth Club

- Participated in community service initiatives focused on education and environmental sustainability.
- Organized events and campaigns to raise awareness on social issues.
- Organized event on "Healing Through Arts" for youth for mental health

Link: www.facebook.com/profile.php?id=100094643643502

[2024] **Member of World-YWCA**

World YWCA is functional in Nepal as Nepal Mahila Biswasi Sangh, where I participated in Trainee of Trainers (TOT) program regarding SHRH.

Link: nmbsywca.com

[2024] **Member of Youth Advocacy Nepal**

Participated in Residential camp at Kotdada for Gender Justice and Climate Justice.

Link: yan.org.np/

[2023 – Current] **Member of Youth Along Voice - Nepal**

Participated in Model Municipal Council and awarded best Participation Award.

Link: www.facebook.com/yavnepal/

COMMUNICATION AND INTERPERSONAL SKILLS

Strong Analytical and Observational Skills

Collaboration and Teamwork

Continuous Learning and Improvement

Creative and Strategic Problem-Solving Abilities

Constructive Feedback Handling