



# Samshrita Ghimire

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## WORK EXPERIENCE

### ASSOCIATE CYBERSECURITY ENGINEER – GENESE SOLUTION – 25/10/2024 – 08/07/2025 – LALITPUR, NEPAL

- 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 CrowdStrike 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.

### INFRASTRUCTURE ENGINEER TRAINEE – FOCUSONE PAYMENT SOLUTIONS (MOCO) – 08/09/2024 – 16/10/2024 – KATHMANDU, NEPAL

- 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

### CLOUD SECURITY ENGINEERING APPRENTICE – CODE RUSH PVT LTD – 23/12/2023 – 07/08/2024 – LALITPUR, NEPAL

- 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 TRAINING

24/07/2025 – CURRENT Indore, India

**MTECH COMPUTER SCIENCE AND ENGINEERING** Indian Institute of Technology Indore

**Website** <https://www.iiti.ac.in/> | **Field of study** Engineering, manufacturing and construction | **Level in EQF** EQF level 7

01/12/2019 – 07/05/2024 Kathmandu, Nepal

**BACHELOR'S IN COMPUTER ENGINEERING** Tribhuvan University- Institute of Engineering

**Website** <https://ioe.tu.edu.np> | **Level in EQF** EQF level 6

## CERTIFICATIONS

23/02/2024 – 23/02/2027

**AWS Certified Cloud Practitioner**

**Link** [https://www.credly.com/badges/2224897c-a06f-4e8d-a6e5-7cb853db6e3a/public\\_url](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](https://www.credly.com/badges/6bafc5d7-0fd7-4cb7-8981-b3eccba36f94/public_url)

## DIGITAL SKILL

**Artificial Intelligence & Machine Learning**

Model development with Python, Scikit-learn, CNN/LSTM architectures, data preprocessing, and computer-vision workflows.

## Cybersecurity & SOC Operations

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SIEM management (Wazuh, CrowdStrike), log analysis, incident response, VAPT for financial institutions, OWASP Top 10, threat intelligence, ISO27001 & Cyber Essentials alignment.

## Cloud & DevSecOps

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AWS fundamentals, cloud security, IAM, secure deployment practices, automation, CI/CD familiarity.

## Data & Analytics Tools

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Pandas, NumPy, Matplotlib, SQL, Jupyter; statistical analysis and predictive modeling.

## PROJECTS

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### Monument Recognition System

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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

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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->

## SOCIAL ACTIVITIES AND VOLUNTEERING

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### Sports

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Inter College Futsal First Runner Up - 2023 

Intra College Futsal Champion - 2022, 2023 

06/12/2024 – CURRENT

### Board Member of Youth Echo Nepal

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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

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- 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](http://www.facebook.com/profile.php?id=100094643643502)

## COMMUNICATION AND INTERPERSONAL SKILLS

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### Strong Analytical and Observational Skills

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### Collaboration and Teamwork

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