

# Sagar Bhandari

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## PROFESSIONAL SUMMARY

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Experienced and well-qualified solutions engineer with hands-on experience in the cybersecurity sector, possessing a Bachelor's degree in Computer Engineering. I possess expertise in Linux system debugging and troubleshooting, with a deep understanding of various networking devices. Additionally, I have a strong background in security information and event management (SIEM), security orchestration, automation, and response (SOAR) systems and programming(python,c/c++). My proficiency extends to cryptography, ensuring secure data transmission and storage. Moreover, I bring a comprehensive understanding of cybersecurity best practices and a commitment to staying updated with the latest industry trends and emerging technologies.

## WORK EXPERIENCE

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### LogPoint

Oct. 2021 – Present

*Senior Solutions Engineer*

*Lalitpur, Nepal*

- Evaluate customer network and security posture to design tailored solutions.
- Develop Python based log integration plugins on data ingestion and analysis from various API endpoints.
- Design deployment architectures and optimized solution sizing for peak performance.
- Assist in completing RFI/RFP responses for client.
- Conduct Proof of concept (POC) demonstration to validate solutions.
- Integration of various Network Devices, Custom applications and APIs to the SIEM/SOAR.
- Design use cases for SOAR playbooks to effectively respond to and investigate various threats, enhancing incident response capabilities.

### Cosmos College of Management and Technology

Dec 2018 – Oct 2021

*Educator and Facilitator in Logic Circuits and C/C++*

*Lalitpur, Nepal*

- Delivering comprehensive lectures on C/C++ and Logic Circuit to undergraduate students.
- Collaborating with fellow educators to create interdisciplinary learning experience.
- Actively assisting students in C/C++ and Python projects and mentoring them through the development process.

### Bitsrent Limitada

Freelance

*System Engineer*

*San José, Costa Rica*

- Collaborated closely with the team to develop a strategic roadmap
- Leveraged expertise in blockchain technology to contribute to the creation of ERC-20 tokens, facilitating secure and efficient transactions within the company's ecosystem.

## VOLUNTARY EXPERIENCE

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### Help NEPAL Network

Volunteering

*Technical Volunteer*

*Kathmandu, Nepal*

- Along with the team we build and monitored the Linux thin client for E-library in various government school of remote areas.

### LOCUS, IoE Pulchowk

Volunteering

*Chief Correspondent*

*Lalitpur, Nepal*

LOCUS is a prominent umbrella organization spearheaded by undergraduate students from the Electrical, Electronics,

and Computer Engineering departments at IOE, Pulchowk Campus, the central campus of the Institute of Engineering. I had the privilege of serving as the Chief Correspondent for this organization, which hosts one of the largest technological festivals in the country.

## EDUCATION

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### **Pulchowk Campus, IOE**

*BE, Computer Engineering*

**Oct, 2018**

*Lalitpur, Nepal*

- Major Courses:
  - Enterprise Application Design and Development
  - Computer Networks
  - Internet and Intranet
  - Artificial Intelligence
  - Data Mining
  - Big Data Technologies

### **Bhanu Memorial Higher Secondary School**

*Higher Secondary(10+2), Science*

**June, 2013**

*Biratnagar, Nepal*

### **Bal Jagat English Boarding School**

*School Leaving Certificate(SLC)*

**April, 2011**

*Morang, Nepal*

## GRANTS & SCHOLARSHIPS

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- **2014-2018 A.D:**
  - Received full scholarship for Bachelor in Computer Engineering in Central Campus (Pulchowk Campus) of Institute of Engineering, TU, Nepal based on the result of competitive entrance examination. (Rank:114)
- **2011-2013 A.D:**
  - Received full scholarship for Higher Secondary Education based on Entrance Exam held. (Rank 4)

## MEMBERSHIPS

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- **Registered “A” Class Computer Engineer in Nepal Engineering Council Nepal.**
- **Member of Nepal Engineering Association.**

## CERTIFICATIONS & SKILLS

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- **Certifications:**
  - Completed Python Data Structures course with certification offered by University of Michigan (Coursera)
  - Completed Python to Access Web Data course offered by University of Michigan (Online)
  - Completed Neural Network and Deep Learning Specialization course by Andrew Ng (Coursera Online)
  - Completed Machine Learning Course by Andrew Ng (Stanford Online)
  - Completed U.S Public Policy: Social, Economic and Foreign Policies offered by HarvardX(edX)
  - Completed Cryptography I Course by Dan Boneh. (Coursera)

▪ **Skills:**

- Linux Proficiency: Command Line Interface (CLI), Shell Scripting, System Logs.
- SIEM/SOAR Platforms: LogPoint SIEM, Logpoint SOAR, DFLabs
- Debugging, Monitoring and Troubleshooting: Application Performance Monitoring (APM), Heap dump analysis, Log Analysis.
- Networking and Network Security: TCP/IP, UDP, HTTP/s, DNS, IDS, IPS, VPNs, NAT, SDN, Load Balancing, Proxy, NetFlow, sFlow, Network Forensics.
- Firewall Configuration and Management: iptables, firewalld, Stateful/less Filtering, Connection tracking, Firewall Rules.
- Security Standards and Compliance.
- Cloud Security: VPC, IAM, KMS, WAF.
- Scripting and Automation: Python, Bash, Solidity, C/C++, MATLAB.
- Computer Vision and Machine Learning: Knowledge of Machine Learning Models and Algorithms (GAN, Reinforced Learning, CNN, RNN, LSTM), OpenCV
- Database Management: MySQL, MSSQL, MongoDB, PostgreSQL.
- Continuous Learning: Cybersecurity Threats, SIEM Technologies.
- Collaboration: Cross-functional Teams, Security Collaboration.
- Excellent verbal and written communication.

## ACADEMIC PROJECTS

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### Decentralized Electronic Health Record System (Major)

The Decentralized Electronic Health Record System (DEHRS) is a pioneering final year project utilizing Ethereum blockchain technology to manage secure medical record transactions among healthcare stakeholders. DEHRS offers a user-friendly interface facilitating direct patient-doctor communication, enhancing data privacy, reducing administrative costs, and promoting self-sustainability. This project aims to revolutionize healthcare data management, providing a proof-of-concept for a decentralized system that improves data integrity, patient engagement, and overall healthcare quality.

### Hand Sign Recognition (Minor)

We, in a group completed this project which is able to recognize the hand signs fed through the web cam on real time. We used CNN and for its implementation Keras on top of Theano was used. Along with the CNN, python and OpenCV libraries were also used.

### News ME

It is a complete news website using hybrid recommendation and user group segmentation.

### Door Automation System

It is the project done for Instrumentation II and LOCUS. The main idea of the project is to automate the door with the functionality of fingerprint authentication through the android device via wireless using the Bluetooth module for communication. The project has mainly concentrated on learning the implementation of various topics and techniques taught in the lecture along with the uses of various modules (AVR atmega-16, Bluetooth, IR sensor). Fingerprint scanner of mobile was used for authentication.

## PUBLICATIONS

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### Decentralized Electronic Health Record System using Blockchain

*Journal of Institute of Engineering Vol 15 – Feb 21, 2020* , DOI : <https://doi.org/10.3126/jie.v15i1.27716>

2020

## PROFESSIONAL REFERENCES

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- **Prabesh Bhatta** | Associate Engineering Manager, Service Engineering  
[prh@logpoint.com](mailto:prh@logpoint.com)
- **Baudev Raut** | HOD, Security Research  
[brv@logpoint.com](mailto:brv@logpoint.com)
- **Roshan Khatri** | IT Manager, Internal IT  
[rkh@logpoint.com](mailto:rkh@logpoint.com)
- **Bibek Ropakheta** | HOD, IT and Computer Engineering, Cosmos College of Management & Technology  
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