

Shashwat Adhikari

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A highly motivated recent graduate with a master's degree in cyber security seeking opportunities in the industry to further professional growth. With a strong engineering background, technical expertise, research and teaching experience, industry exposure, and a proven track record in customer service and sales, I possess a unique blend of technical cyber security skills and exceptional interpersonal abilities. This combination allows me to effectively communicate complex technical concepts while building strong relationships with clients and stakeholders. I am confident in my ability to excel in a variety of challenging and fast-paced work environments, leveraging my technical expertise and customer-centric approach to drive successful outcomes.

Tools And Core Competencies:

- Experience in implementation of ISM frameworks such as ISO27001 and Cyber Essential Plus
- Experienced in vulnerability assessment and exploitation tool such as: Nmap, Wireshark, Nessus, Metasploit and Aircrack-ng
- Excellent programming capabilities in Python; Intermediate in C++ and Java.
- Extensive experience with Linux operating system and bash scripting.
- Knowledge of reverse engineering and malware analysis using FlareVM and Ghidra

Education:

PhD. Cyber Security,
University of Plymouth, England.

October 2021 – Present, (1 Year, 7 months)

- Funded research exploring the viability of an IDS using low-level performance counters in IoT devices
- Also performed an in-depth study of diversity between Snort and Suricata's rules and functionality, along with the evolution of their detection performance over four years
- Both studies are on track to be published soon, currently undergoing peer review process
 - "A Perspective-Retrospective Analysis of Diversity in Signature-Based Open-Source Network Intrusion Detection Systems" – Empirical Software Engineering Journal
 - "Efficient Malware Detection using Hardware Performance Counters in IoT networks" – International Symposium on Software Reliability Engineering

MSc. Cyber Security,
University of Plymouth, England.

September 2020 – September 2021,

- Modules included Cryptography, Ethical Hacking, Information Governance, Digital Forensics, and Incident Management.
- Dissertation on 'Power Consumption Analysis Towards Botnet Detection in IoT Devices.'

Bachelor of Technology (BTech.) in Computer Science and Engineering,
Jain University, Bangalore, India.

August 2015 - September 2019, (4 Years)

- Modules included Enterprise Software Development, Big Data Analysis, Computer Graphics and Visualization, Web Technologies, Microcontrollers and CPU Design, System Software and Compilers, Data Communication and Networks.
- Final year project titled 'An Effective Fake News Detection Technique using Bayesian Classification'

Work Experience:

CloudFactory, Kathmandu, Nepal — Data Analyst

February 2020 - August 2020 (5 months)

- Analysed large datasets, consisting of thousands of samples, to identify patterns, trends, and anomalies crucial for training autonomous vehicle models.
- Utilized data visualization tools, such as RStudio and Python libraries, to present findings and communicate key insights to stakeholders.
- Developed data validation and quality assurance frameworks, resulting in a data accuracy rate of 97%.
- Implemented key performance indicators (KPIs) and tracked team performance, resulting in a 19% increase in throughput.

Whale Cloud Technologies, Kathmandu, Nepal — Business Intelligence Intern

March 2019 - May 2019 (3 months)

- Contributed to the design and implementation of user-friendly interfaces, enabling seamless interaction with data visualization, reporting, and analysis functionalities.
- Played a key role in integrating various data sources and implementing data transformation processes, ensuring accurate and reliable insights for decision-making.
- Conducted interactive training sessions, engaging team members in hands-on exercises to strengthen their proficiency in utilizing the software for data analysis and reporting.

Vianet ISP, Kathmandu, Nepal — Business relation executive

July 2014 – August 2015 (1 year, 1 month)

- Provided training to affiliate business partners regarding the sales and installation process.
- Performed first time router installation and configuration for customers.

Personal Projects:

Self-Hosted VPN Solution:

- Successfully implemented a self-hosted VPN server residing in the AWS cloud, ensuring secure remote access and data encryption.
- Maintained the server's security through regular updates and comprehensive audits, prioritizing the protection of sensitive information.
- Recently transitioned the VPN server to Oracle Cloud, taking advantage of their always free tier, following the expiration of the AWS's 1 year free-tier offer.

Home Malware Analysis Lab:

- Constructed a malware analysis infrastructure within my home environment, complete with a dedicated sandbox and simulated internet connectivity.
- Designed to emulate real-world scenarios, this lab facilitated the identification of malicious software and the development of effective countermeasures.
- Actively updated and expanded the lab's capabilities to stay abreast of evolving cyber threats and enhance skills in malware analysis and detection.