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Anurag Adhikari

SUMMARY

I'm a 25 years old Security Enthusiast & Freelancer who graduated from Kathmandu University, Department of Computer Science and Engineering. I love everything that has to do with Cyber Security and I feel a true devotion for security and ethics related stuff. I have also worked as a Freelance Designer, Web Developer for the initial 3 years, and Python Developer and Security Engineer for the later 5 years. I have previously worked at an 'A' class bank as a Security Analyst for 2 years and have been integrating and configuring security systems as well.

I also like actively working for Community Work as I have been working as a Technical Lead Volunteer for 5 years with Help Nepal Network as a Technical Lead deploying several LTSP E-libraries all across rural Schools in Nepal along with giving training to Teachers and Students.

I am also an active Organizer organizing various events like TEDx, IT MEET and several Entrepreneur related events which help me build my personal networks where I can learn and share my knowledge.

EDUCATION

Kathmandu University, Dhulikhel, Nepal – *BSc. in Computer Science*

Aug 2015 – Oct 2019

Department of Computer Science and Engineering

Takshashila Academy, Kathmandu, Nepal – *High School (HSEB Science)*

2013 – 2015

NIIT, Kathmandu, Nepal – *Swift for Professionals*

Design and Development

2013

NIIT, Kathmandu, Nepal – *A+*

Hardware and Networking

2013

New Summit Higher Secondary School, Kathmandu, Nepal – *Primary Education*

School Leaving Certificate

2000 – 2013

RESEARCH INTERESTS

- Cyber Security
- Network Security
- Big Data
- Machine Learning
- Artificial Intelligence
- Internet of Things
- Cloud Native Computing

SPECIALIZATIONS

CYBER SECURITY

- Vulnerability Assessment
- Penetration Testing
- Incident Response
- Threat Monitoring
- Log Analysis

OPERATIONS

- Server Deployment
- Server Hardening
- Backup and Restore Automation
- Containerized Deployment
- Consultation

PYTHON

- Automation
- Web Scraping
- Raspberry Pi Automation
- Data Analysis
- Research

TOOLS

- Nikto
- OpenVAS
- BurpSuite
- Autopsy Digital Forensics
- ELK Stack
- QRadar
- Kali Linux Misc. Tools
- MISP
- Mitre Attack Navigator
- Recon and Fingerprinting Tools
- Nmap
- Nessus
- CyberChef
- Metasploit
- BeeF Framework
- AirCrack-ng
- Cracking Tools (John, Hashcat, Hydra etc.)
- Mimicatz
- WireShark
- Phishing Tools (GoPhish, KingPhish etc.)
- Reverse Engineering Tools (Radare2, IDA etc.)
- Discovery and Fuzzing tools (ffuf, sublist3r, gobuster etc.)
- Windows AD Tools

CERTIFICATIONS

Certified Ethical Hacker (Practical)

– EC Council

Credential ID: ECC2638457190

<https://aspen.eccouncil.org/verify>

WORK EXPERIENCE

Upwork/Fiverr/Independent Clients, Remote Work

– *Security Engineer/Data Analyst/Designer/Developer*

Nov 2013 – Present

- Design logos/banners/websites/UI/UX etc. and manage client's projects (2013–2018)
- Design and Develop Websites (PHP, HTML, CSS, JS) (2015–2020)
- Scrape and Analyze data, and prepare research reports (Python/Selenium/Scrapy etc.) (2017 – Present)
- Deploy Applications in independent cloud based solutions (AWS, Azure, Digital Ocean, VPS) (2018 – Present)
- Analyze the security of the Web/Mobile Application and Server and prepare detailed reports along with the remediation methods (2018 – Present)
- Fix related security issues and prepare future plan report (2018 – Present)
- Automate server based backups and make flows for redundant work (2018 – Present)
- Mitigate and Fix issues caused by Malware/Server or Website Takeover (2019 – Present)

HL Support Pvt. Ltd., England and Wales

– *Freelance Security Engineer*

March 2019 – Present

- Regularly analyze security related issues and create detailed report on Proof of Concepts of the vulnerabilities and issues identified
- Create automated backup solutions and maintain them accordingly from VPS to cloud storage mediums
- Maintain and fix any server and application related issues hindering the reliability, integrity and confidentiality of the organization.
- Collaborate with the developer to fix any potential operational issues.
- Harden server and web application for better security

Sanima Bank Ltd., Naxal, Kathmandu

– Security Analyst Tier II

Feb 2020 – Feb 2022

- Update tickets, write incident reports and document actions for false positive reduction.
- Developing knowledge of attack types and fine-tuning detective capabilities such as writing SIEM alerts.
- Identifying log sources and examining system logs, which should record sufficient details about the normal activities of the system to allow a history of events to be reconstructed, making use of appropriate forensic techniques and technologies.
- Establish plans and protocols to monitor digital files and information systems against unauthorized access, modification and/or destruction.
- Conduct penetration testing, which is when analysts simulate attacks to look for vulnerabilities in their systems before they can be exploited.
- Regular monitoring of organization's Information Security assets for security incidents.
- Conduct investigation on security breaches and prepare the reports on the extent of damage.
- Research the latest information technology (IT) security trends.
- Maintain and support the operational integrity of SOC toolsets.
- Review and recommend security enhancements in any information systems to the Senior management.
- Setup and Integrate Threat Intelligence with Intrusion Detection system and maintain the system regularly.
- Comply the AML/CFT policies and procedures in respect of customer identification account monitoring, record keeping and reporting while performing the job.
- Reverse Engineered mobile application (iOS and Android) to identify any issues
- Work with IBM QRadar, ELK Stack, Kali Linux Tools, Python Scripts for day to day tasks.

CICT (Covid-19 Contact Tracing Web App), Dhulikhel Hospital, Nepal

(Funded by Billgates Foundation)

– Project Manager / Security Engineer

Jan 2021 – June 2021

- Hardened the whole Server and Application
- Managed and completed the whole team and project within timeline
- Ran security analysis and penetration testing to identify potential vulnerabilities and fixed them

Hamro Patro, Nepal

– Freelance Security Analysis

Dec 2020 – June 2021

- Find Security related issues within the Hamro Patro mobile application, website and server
- Create detailed report on Proof of Concepts of the vulnerabilities and issues identified
- Report the issues to the developer team to mitigate and fix the issues

Eminence Ways Pvt. Ltd., Maitidevi, Kathmandu

– Security Engineer

Jul 2019 – Dec 2019

- Performed Vulnerability Assessment and Penetration Testing for clients (onsite) and prepared required reports. (Linux, Windows, Networks and Web Applications)
- Researched on IoT based security products and develop prototypes (Web, AWS and Linux)

PAPERS & PUBLICATIONS

Independent Data Analyst and Researcher

<https://orcid.org/0000-0001-7871-0756>

<https://scholar.google.com/citations?user=r1bkL0QAAAAJ>

- **Prevalence of Type 2 Diabetes among Patients Visiting Nepal Police Hospital in Kathmandu: A Descriptive Cross-sectional Study**

Rajbhandari, B., Hyoju, S. P., Poudel, L. ., Adhikari, A., Rijal, B., & Joshi, P. (2021). Prevalence of Type 2 Diabetes among Patients Visiting Nepal Police Hospital in Kathmandu: A Descriptive Cross-sectional Study. *Journal of Nepal Medical Association*, 59(233).

<https://doi.org/10.31729/jnma.5734>

- **COVID Stress among Nepal Police Officers**

Rajbhandari, B., Tiwari, B., Gurung , M., Poudel , L., Adhikari , A., Shilpakar, O., Puri, R. R., & Singh, S. (2021). COVID Stress among Nepal Police Officers. *Journal of Nepal Health Research Council*, 19(2), 390-395.

<https://doi.org/10.33314/jnhrc.v19i2.3672>

RECOGNITIONS AND PARTICIPATIONS

- **Microsoft's Hall of Fame (Security Flaw)**

Found a Security Flaw in Microsoft's Site [October 31st 2020]

<https://msrc.microsoft.com/update-guide/acknowledgement/online>

Microsoft Corporation

- **LTSP E-Library Project (Linux and Networking)**

Worked as a volunteer for HeNN E-library Project for 5 years (Monitored/Deployed at various sites- Pyuthan, Morang, Solukhumbu, Syanja, Kaski, Chabahal)

Help Nepal Network

- **1st Runner Up - Capture the Flag Competition**

Attained the position of 1st Runner up at Global Cyber Security Summit 2018 Capture the Flag Event

GCSS 2018, Nepal

- **TEDx Organizer**

<https://www.ted.com/tedx/events/32100>

Co-Organizer at TEDxYouth@Gyaneshwor (Technical Lead)

TEDxYouth@Gyaneshwor

- **KubeCon + CloudNativeCon Europe 2022**

Physically Attended KubeCon 2022 held at Valencia, Spain

The Linux Foundation

- **Project Amplifire - US Embassy**

Worked as a designer for Project Amplifire

US Embassy

- **Engineers Without Borders**

Collaborated with University of Colorado Boulder for Engineers without Borders Conducted Technical Survey of Kalinchowk Ward -1 Area using Drones

Boulder, CO 80309, USA

- **Nirvana Home Studio International Internship (AIESEC)**

Worked as an intern for a month at Nirvana Home Studio under Photography, Videography, Design and Editing and shared cultural experiences

Nirvana Home Studio, Bogor, Indonesia

- **Kathmandu University Computer Club**

Worked for 3 years as Executive Member, Club secretary & General Secretary respectively

Kathmandu University, Dhulikhel, Kavre

- **IT MEET**

Organized IT MEET 2017, 2018 and v8.0 and developed the Smart Panas app and Smart Panas at IT MEET 2018

Kathmandu University, Dhulikhel, Kavre

- **PostgreSQL International Conference 2018 Nepal**

Volunteered as a logistics Manager, Designer and Photographer

POSTGRESQL International Conference, Kathmandu University, Nepal

- **Turbine Testing Lab Website**

Designed and Developed Turbine Testing Lab Website

<http://ttl.ku.edu.np/developers>

Turbine Testing Lab, Kathmandu University

- **1st Runner up - Design Competition**

Attained the position of 1st runner up

UG Bazaar Dashain and Tihar Competition

- **Internal YET Conference**

Organizer at Internal Youth Entrepreneurship Conference (Technical Lead)

REFERENCES

- **Prof. Dr. Manish Pokharel**

Dean, School of Engineering

manish@ku.edu.np

Kathmandu University, Dhulikhel, Nepal

- **Prof. Dr. Bal Krishna Bal**

Head of Department, Department of Computer Science and Engineering

bal@ku.edu.np

Kathmandu University, Dhulikhel, Nepal

- **Archana Shrestha, PhD**

Assistant Professor Adjunct

Department of Chronic Disease Epidemiology; Center of Methods for Implementation and Prevention Science

a.shrestha@yale.edu

Yale School of Public Health, New Haven, USA

- **Subas Chandra Khanal**

Information Security Officer, CISSP, ISO27001 LA, CEH, RHCE and CCNA

subas.khanal@sanimabank.com

Sanima Bank Ltd., Naxal, Kathmandu, Nepal