

SAMRAT SHRESTHA

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Present Address: Kathmandu, Nepal

CAREER OBJECTIVE:

To use all my acquired skills and experience to offer a good service to my organization. I pose a strong drive and willingness to learn additional skills and deliver an optimum service.

PERSONAL SKILLS:

- Self-motivated with ability to work under minimum supervision.

CYBER SECURITY SKILLS:

- Knowledge in bash scripting with different UNIX command line in Linux OS.
- Data manipulation and text transformations using SED.
- Currently learning and doing different CTF (Capture the Flag) and penetration testing exercises in websites such as HackTheBox, TryHackMe etc.
- Basic knowledge about the different security vulnerabilities such as LDAP injection, SSTI, SQL Injection, Path Hijacking etc. used in different CTF exercises.
- Basic knowledge on enumeration and analysis of website using tools such as Nmap, GoBuster, Burpsuite, DirBuster, Nessus etc.
- Basic privilege escalation knowledge in both Linux and Windows environment.
- Experience working in both Windows and Linux OS environment.
- Knowledge of using Metasploit and MSFvenom for exploitation.
- Basic knowledge about different industry standards for penetration testing such as: OWASP, OSSTMM and PTES.
- Basic knowledge in performing packet-level analysis using Wireshark.

PROGRAMMING AND OTHER SKILLS:

- Excellent knowledge of a variety of programming languages including C#, Python, JavaScript and TypeScript.
- Knowledge on containerization using Docker.
- Knowledge on different working architectures such as Microservice Architecture and Onion Architecture.
- Knowledge on SSO integration using Okta.
- Knowledge on database management using MS SQL Server.
- More than 1 year of working experience in design patterns such as MVC, Repository design pattern and MediatR pattern.
- Detail knowledge on Angular and its UI components PrimeNg and Ant design.
- Detail knowledge on Angular JS.

- Working experience in developing POS (Point of Sale) system.
- Working experience in developing HMS website and mobile application.
- Knowledge in Ionic framework and Nativescript framework to develop application in both iOS and android platform.
- Fluent in written and spoken English and Nepali.
- Strong code debugging skills.
- Experience of using source control system such as Git.

EXPERIENCE:

- **Software Engineer at CrossOver Nepal – (November 2019 – April 2021)**

Projects Accomplished:

- i. Restaurant POS System
- ii. Hospital Management System

In the company I was responsible to do the following activities:

- a) Wrote highly maintainable, solid code, forming core framework and earning consistent praise from subsequent developers since initial version.
- b) Improved system performance by making proactive adjustments and resolving bugs.
- c) Adjusted design parameters to boost performance and incorporate new features.
- d) Worked closely with software development and testing team members to design and develop robust solutions to meet client requirements for functionality, scalability and performance.
- e) Worked with project managers, developers, quality assurance and customers to resolve technical issues.

The tools that I used during that project development are:

- Backend: C#
- Frontend: HTML, CSS, Bootstrap, Angular and Angular JS
- DBMS: MS SQL Server
- Other Frameworks : Ionic, Framework7, NativeScript

- **Software Engineer I at Cotiviti Nepal – (May 2021 – Present)**

I currently work here and I am responsible to do the following activities:

- a) Develop different micro services following the microservice architecture.
- b) Find different security vulnerabilities in the existing code using Veracode and patch them.
- c) SSO (Single Sign On) integration on different ASP.NET microservices using Okta.
- d) CI/CD integration using Bamboo and Octopus.

The tools that I used during that project development are:

- Backend: C#
- Frontend: Angular
- DBMS: MS SQL Server.

CERTIFICATIONS:

1. Coursera Certificates:

- Completed IBM Course “Introduction to Cyber Security Tools & Cyber Attacks”
Source: <https://coursera.org/share/b9614ea61588f5cd071ffd7d6868c9ab>
- Completed University of Michigan Course “Programming for Everybody (Getting Started with Python”
Source: <https://coursera.org/share/4d57b0cffffcaf3503518eac6bf0e79b>
- Completed Udemy Course “Bash Scripting and Shell Programming”
Source: <https://www.udemy.com/certificate/UC-4c64f349-7f96-4e64-b062-8b8e10d0827f/>

ACHIEVEMENTS:

- **Basic CTF and Penetration Testing:**

Experience in basic CTF (Capture the Flag) and penetration testing on different machines provided in HackTheBox and TryHackMe websites. Different certifications related to cyber security in LinkedIn Learning and CTF tournaments such as HacktivityCon 2021 etc.

- **Slide Shush:**

Slide Shush is an interactive 2D game where user navigates through infinitely spawning map levels with varied difficulty. I used C# and unity 2D for developing this game.

Technologies used: C#, Unity 2D.

- **Link N Learn:**

Link N Learn is a website for providing engineering students with notes, it provides study resources for engineering students including integrated chat application enabling interaction with teachers.

Technologies used: Angular, C#, MS SQL.

- **Audio Seeker:**

Audio Seeker is an android application which can be used to identify the recently heard and unrecognized songs. Basically it is a music recognition application similar to Shazam. Implemented this application using Python for backend and flask for API creation, and used the API in the android app using Java programming language and Android Studio as the IDE.

Technologies used: Python, Flask, Java, Firebase.

- **Sawari Sewa:**

Sawari Sewa is an android application which can be used to find two/four wheeler vehicle for transportation in the area of the customer. It is implemented using Java programming language and Android Studio as the IDE.

Technologies used: Java, Firebase.

DECLARATION:

I certify that the above are true and correct to the best of my knowledge and ability. If given a chance to serve you. I assure you that I will execute my duties for the total satisfaction of my superiors.

Applicant

SAMRAT SHRESTHA