Prakash Ratna Prajapati

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PROFESSIONAL SUMMARY

Honors student with a record of academic and extracurricular success. Academic credentials are reinforced by programming experience gained during personal and academic projects. Known as creative, hardworking and ability for multitasking.

WORK EXPERIENCE

09/2019 - 10/2019

Leapfrog Technologies (Software Developer Internship)

Activities:

- Developing responsive web pages using HTML and CSS2.
- Manipulating DOM elements using javascript.

01/2020 - Now

Cynical Technology (Security Analyst)

Activities:

- Vulnerability testing of websites.
- Detecting system configuration issues and reporting.

EDUCATION

2015 - 2019

Bachelor's Degree in Computer Engineering, Kantipur

Engineering College, Lalitpur. (80.86%)

2013 - 2015

+2 Science, Capital College and Research Center, Koteshwor.

(80.9%)

2000 - 2013

SLC, Jaycees Secondary School, Bhaktapur. (85.13%)

SKILLS

Programming Languages: C, C++, Java, Python, Javascript.

Frameworks: Django, Hyperledger Composer, RESTful

Linux: Shell commands, Scripting, File system

Server: Apache2, httpd Database: MySQL, MongoDB

Cyber-security: Penetration testing, forensics

Graphics: Photoshop

EXPERIENCE / ACTIVITIES

Linux Training

Training students on linux kernel, distros, shell commands and shell scripting.

Ethical Hacking & Forensic Investigation

Training organized for Nepal Police with hands on tools for hacking and digital forensic investigation.

KEC Computer Club

2 years membership in the club, conducting various activities as well as LITE Technical Exhibition annually.

PROJECTS

FaceFilter - Javascript Project:

Implementation of Haar Cascade technique developed by Voila & Jones to detect human face in image. Then user can select face(s) and add available filters to it. Live demo link at: https://paxprz.github.io/Haar-Face-Detector

Firefly responsive webpage - *HTML* & *CSS project*:

Design project at leapfrog using HTML and CSS2. Live demo link at: https://paxprz.github.io/firefly-responsive-web

Hastakshar - Academic Major project:

Offline signature verification system using CNN (Keras & Tensorflow). The trained weights metadata are then stored in blockchain network implemented using Hyperledger Composer. System was developed in Django with web interfaces. Only allowed users can verify signature of a signee while the signee gets notified of those actions. I tested with many CNN architecture, mostly created by myself. Training was done in Nvidia-1050Ti using Tensorflow-gui. Many steps of image pre-processing were carried out including grayscaling, noise reduction, resizing, etc using numpy and opency library.

DrSewa - *Django Application*:

Doctors and patients informations are stored in blockchain network implemented using hyperledger composer. Only consulted doctor can view all reports of patients. Patient can set an appointment with the doctor and consult with video conference implemented using WebRTC.

Image Processing Toolkit - Python project:

Basic image processing functions like grayscaling, power-law, brightness, contrast, filters, etc implemented in python. Tkinter was used for GUI.

Secret Notice - Java & Android project:

Encrypts messages using caesar cipher algorithm and converts the encrypted text to QR code. User with valid password can only decipher message from QR code. Swing framework implemented for GUI. I used zxing library to generate QR for desktop application.

Travel Partner - Android project:

Android app with complete package for tourists visiting Nepal in 2020. Provides speech translation from various languages using Yandex API, currency conversion using Fixer API and google map searches for nearest hotels.

Asteroid Smash - Android game in unity:

Implementation of reinforcement learning using ML-Agents to train enemy ship.

RansomTest - Light version of ransomware:

Program developed in python that mimics the action of ransomware and encrypts the images present in working directory using AES. 4096 bit RSA key was used for public key encryption. Crypto.Cipher.AES and rsa modules were implemented.

Chatbot - *C project*:

Program searches for a set of strings in user input and generates output based on it.

Library Management System - C++ project:

Management system for library using Standard Template Library and file handling.

ACHIEVEMENTS

Best student award in Engineering Drawing, KEC, Lalitpur. 3rd place award in ITMeet v8 Hackathon for Travel Partner. Best code award in Sagarmatha Hackathon for DrSewa.

INTERESTS

Cyber-Security Artificial Intelligence Blockchain

REFERENCES

References available on request

^{**}Other projects are available in github profile