SANSKAR JAIN

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Summary

Self-motivated computer science graduate with proficiency in C++. Experienced in HTML, CSS, and JavaScript, with exposure to machine learning, CNNs, and web security. Passionate about developing innovative solutions and growing in a dynamic environment.

Experience

Tech Mahindra, Noida — June 2023 – August 2023

Software Development Intern

- Experienced new technology of machine learning and convolutional neural network in an online setting, developed a module of a project on image tampering detection that distinguishes between original and tampered images for a project of Tech Mahindra.

Education

Amity University, Noida
B. Tech. in Computer Science Engineering | **CGPA : 8.07** — September 2020 – June 2024

Bharti Public School, New Delhi - 92
Senior School | **Percentage : 92.8%** — April 2019 – March 2020

Bharti Public School, New Delhi - 92
Secondary School | **Percentage : 92%** — April 2017 – March 2018

Skills

Technical Skills : C++, Python, HTML5, CSS, JavaScript, Git, OOP, DSA, Troubleshooting

Soft Skills : Problem Solving, Presentation Skills, Communication, Leadership, Team Collaboration, Touch-Typing, Adaptability

Projects

- **Vulnerability Detection Tool:** Developed a comprehensive vulnerability assessment tool addressing critical security threats such as SQL Injection and Cross-Site Scripting (XSS). Integrated advanced features like web crawling, directory enumeration, firewall detection, and open port scanning using tools such as Nmap, Wafw00f, and Python-based security libraries. Implemented synchronous function calls to enhance performance and optimize output processing.
  Github: https://github.com/sansjaindev/vulnerability-scanner
- **Image Tampering Detection:** Engineered an image tampering detection system using Convolutional Neural Networks (CNN) built with TensorFlow and Keras. Designed to identify and differentiate original images from tampered ones by analyzing inconsistencies across multiple image regions, ensuring high accuracy in detection.
  Github: https://github.com/sansjaindev/image-tampering-detection
- **Criminal Record Management System:** Developed a C++ application that leverages binary files to securely store and manage criminal records locally on the host system. Ensured efficient data handling and retrieval to support fast access and maintain data integrity.
  Github: https://github.com/sansjaindev/criminal-record-management-system

Certifications

NPTEL — April 2024
Python for Data Science

NPTEL — November 2023
Cyber Security and Privacy

DevTown — February 2023
Backend Web Development using JavaScript, Node.js and Express

freeCodeCamp — October 2022
JavaScript Algorithms and Data Structures

freeCodeCamp — July 2021
Responsive Web Design

Achievements

- **5 – Star Coder in C++ at HackerRank**
- **3 – Star Coder at CodeChef**
- **Solved 500+ questions at LeetCode**
- **Second runner up - Cyberlympics (AYF, 2023)**
- **First runner up - Brain Busters (GFG club, ASET)**
- **Got Scholarship in first year of Engineering**