Gaurav Upadhyay

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SUMMARY:

Responsible and detail-oriented engineer with a focus on high-quality and on-time work skilled in Cybersecurity. Currently pursuing MS in Cyber Security at Syracuse university. Looking for opportunities to excel in the field of information and web security.

SKILLS:

Programming Languages: Python, SQL, C, C++, Java, HTML, CSS.
Tools: Wireshark, Nmap, Metasploit, Net cat, Snort, Burp proxy.
Security: Firewall, IDS/IPS, Software Security, Network Security, Cryptography algorithm, hashing, algorithms, SSL/TLS, Buffer Overflow, Code Review, cyber security, threat intelligence Operating **Systems**: Linux, Windows, Ubuntu, Mac, Android. **Certifications**: CompTIA Security+ (Pursuing)

EXPERIENCE:

Computer System Analyst, Stanley Law Offices, Syracuse *June 2021 - Present*
- Worked with senior partners for IT security planning of the firm and implementation of scheduled sustainment tasks, SSL certificate renewals, software updates and other security updates to ensure data privacy.
- Successfully troubleshoot and resolved operational and technical issues by accessing business impact, identifying the root cause, to facilitate timely remediation of systems and failures.
- Published weekly reports for the Critical deadlines of the firm to ensure that the requirements or necessary steps are being taken before the deadline has been approached.

Student Supervisor, Syracuse University *Jan 2021 – May 2021*
- Objectively monitored performance and prompted corrective feedback to the team on the compliance of standards.
- Looked after the administrative/payroll functions and was responsible for the daily operations of the dining facility.

PROJECTS:

Video Steganography
- Developed an application for hiding of data using cryptography techniques like video steganography.
- Implemented to safeguard different types of file format for instance .txt, .mp3, .jpeg, and .gif. Performed encryption operations on data such as applying DCT on data, applying IDCT (Inverse DCT) and converting Greyscale image frames to colored one.
- Technologies used: JAVA language, Swing framework, DCT, IDCT algorithms.

AES Encryption/Decryption
- Developed python tool to encrypt/decrypt files utilizing AES CBC mode.
- Implemented to safeguard different types of file format for instance .txt, .mp3, .jpeg, and .gif.
- Resulted in practically impossible to break AES encryption as it requires 2000+ brute force attempts.

EDUCATION:

Master of Science, Cyber Security, and Information Assurance *Jan 2021 - May 2022*
Syracuse University
Relevant Coursework: Internet Security, Web Security, Computer Security, Blockchain and Cryptocurrencies, Operating Systems, Assurance Foundations, social media & Data Mining, Design Analysis and Algorithms, Cryptography.

Bachelor of Engineering, Computer Engineering *Aug 2016 - Jul 2020*
Savitribai Phule Pune University GPA: 3.5