Aman Vijaykumar Singh

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Education

Indian Institute of Information Technology, Allahabad

B.Tech Electronics and Communication Engineering | CGPA: 8.82   *August 2019 – Expected July. 2023*

Experience

Google Summer of Code 2021 Developer   OWASP Foundation
SecureTea Project   *May 2021 – August 2021*

- Improved **Network Intrusion Detection** Module by adding 2 attack detection Modules (Used **Python3** module **Scapy**).
- Integrated Whatsapp Notification Module to alert user on attack detection. Used Twilio's Whatsapp sandbox API.
- Improved Website Defacement Detection Based on Machine Learning Techniques and Attack Signatures. Improved performance with detection accuracy of more than **99.26%** and a false positive rate of lower than **0.62%**
- Introduced Web Application Firewall Feature for filtering HTTP requests using Machine Learning Techniques, Accuracy of **98%** with **1.7%** False Positives.
- Developed the project Using Python3 and Git, Linux.

Awards and Achievements

Bug Bounty Hunter: Found many Security Vulnerabilities on multiple Programs on Platforms such as **@Hacker One** & **@Intigriti**

CSAW'20 CTF Finalist: Top 3 teams from India to Qualify for CSAW Cybersecurity Games Conference Finals.

InfoSec Writeups: Authored Articles that Featured on InfoSec-Writeups

Hacking Platforms: Pro Hacker on HacktheBox, **HACKER** on TryHackme, **PentesterLab**

Projects

Block-chain Simulator [Node.js (Express), HTML, CSS, JavaScript]   *January 2021*
🔾 **Code**   **Website: Block-Explorer**

- Implemented Block-Chain concepts such as proof-of-work, hashing, mining, consensus features, Implementation of Block-Chain, decentralized network using JavaScript classes & objects and hashing using SHA256 Algorithm.

Pygoat [Python3, Django, PostgreSQL]   *March 2021*
🔾 **Code**   **Website: Pygoat**

- OWASP's Intentionally Vulnerable Django Web application with OWASP Top 10 Vulnerability for Web Security Demonstration.

Face Reconnaissance [Reactjs, Node.js(Express), PostgreSQL.]   *October 2020*
🔾 **Code**   **Website: Face Recognition**

- Image processing API to detect face structures in the image. Implementation of user login and registration, password hashing along with user statistics information storage in database.

Relevant Skills

Language/Framework:	Python	C++| Javascript	Bash	SQL	Reactjs	Flask	Django	Express	NodeJS
Platforms:	Linux	Web	Windows
Tools:	Git	PostgreSQL	Docker	AWS
Other Skills:	Content Writing	CyberSecurity/EthicalHacking	Communication	Team-Work	Management

Volunteer Experience

Cyber-Security Wing Member, Geekhaven, IIITA
Organized Cybersecurity Events as a member of Technical Society for 1 year.

Mentor For Aparoksha Month, IIITA
Mentoring 400+ Students about Web Security and Exploitation Technique by **presentation** and live online demonstration.

Core Team and Challenge Developer Lead B00T2Root CTF
Organised Worldwide CTF Event for 150+ teams. Developed and Deployed challenges.