

SANJAY KUMAR SAMALA

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EDUCATION

Master of Science in Cyber Security, CGPA: 3.55

George Mason University

January 2024 - -

Bachelor of Engineering in Electrical and Electronics, CGPA: 3.55

Osmania University

August 2019 - July 2023

SKILLS

Network and Protocols	CCNA , CTI, TCP/IP , FTP, SMB, HTTP
Pen-Testing	Nmap , Hydra, Wireshark, Metasploit-Framework , Nessus
Operating Systems	Windows, Kali Linux
Languages and Databases	Python , MYSQL, DBMS
Virtualization and Others	VMware, Virtualbox, Cisco , Cloud Computing IaaS

INTERNSHIP

Penetration Testing

HackersForYou

Sep 2023 - Oct 2023

Hyderabad, India

- Acquired a comprehensive skill set and knowledge base in penetration testing, including information gathering, scanning, vulnerability assessment, exploitation, post-exploitation, network pentesting, and web application security.
- Engaged in practical exercises, tackled challenging labs, and participated in Capture The Flag (CTF) challenges to reinforce understanding and showcase problem-solving abilities.
- Demonstrated high technical proficiency in identifying, assessing, and exploiting vulnerabilities, and developed effective security solutions to enhance cybersecurity posture.
- Learned the importance of clear reporting and effective communication of findings to stakeholders. Worked collaboratively with a team of cybersecurity professionals, participating in lectures, Q-A sessions, group discussions, and practical demonstrations, fostering a supportive and interactive learning environment.

ACADEMIC PROJECTS

Secure Communication Protocol Design

- Developed a secure protocol addressing the **OSI** Model layers vulnerabilities using **Python**, enhancing data confidentiality, integrity, and availability.
- Integrated advanced cryptographic methods, including **AES** and **RSA**, to secure messages, showcasing a deep understanding of encryption, decryption, and key management.
- Demonstrated expertise in **Python** socket programming by creating robust **client-server** applications for secure data exchange over **TCP/IP** networks.
- Performed rigorous testing and security audits, including **penetration testing** and vulnerability assessments.

Software Engineering Virtual Experience at JPMorgan Chase and co.

- Engineered an interface for JPMorgan Chase's stock price data feed using **Python** and **Git**, enhancing trading strategies by providing real-time financial data insights and analytics.
- Leveraged JPMorgan Chase frameworks and tools to develop a dynamic and responsive user interface using **Python** and TypeScript, improving the data visualization experience for traders.
- Acquired proficiency in analyzing and manipulating large datasets of financial data, applying this knowledge to create tools that support data-driven decision-making in high-stakes trading environments.

CERTIFICATIONS

- [Junior Penetration Tester \(eJPT\)](#) - INE Security.
- [Certified Cloud Associate \(ICCA\)](#) - INE Security
- [Offensive Hacking Unfolded - The Beginner's Edition](#) - comproavi.
- Cyber Threat Intelligence 101 - **arcX**