Tadepalli Vijaya Krishna

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PROFESSIONAL SUMMARY

Cybersecurity and Digital Forensics enthusiast with a strong background in building secure, scalable tech platforms. Experienced in mobile and backend development with a focus on security using Python and Java. Skilled in implementing security protocols, analysing cyber threats, and managing incident response using a variety of tools including the ELK Stack (Elasticsearch, Logstash, Kibana). Proficient in forensic analysis, penetration testing, and risk management strategies. Familiar with working in cloud environments such as AWS and Oracle Cloud Infrastructure, and experienced in blockchain and decentralized systems. Strong knowledge of operating systems, data structures, and algorithms, coupled with hands-on experience in digital forensics.

Skills

Languages: Python, Java, C++, JavaScript, Solidity, Rust, Kotlin
Cybersecurity Tools: ELK Stack (Elasticsearch, Logstash, Kibana), Wireshark, Metasploit, Nmap, Nessus, Burp Suite, OWASP ZAP
Forensics Tools: Autopsy, FTK Imager, EnCase, Volatility Framework, Sleuth Kit, Cellebrite
Cloud Platforms: AWS (Cloud Practitioner), Oracle Cloud Infrastructure
Blockchain & Cryptography: Solidity, Substrate, Hyperledger, Encryption (AES, RSA), Secure Hashing (SHA, MD5)
Databases: SQL, PostgreSQL, MongoDB, Cassandra, Redis
Mobile & Web Development: Flutter, React.js, HTML, CSS, Next.js, Django, Android
Other Skills: Incident Response, Vulnerability Management, Penetration Testing, System Hardening, Digital Forensics, Data Structures, Algorithms, Async Programming

Education

B.tech CSE Cyber security,	XII 2019-2021 MPC,	X 2019,
Graduation Year (2025),	Percentage- 95.5%,	CGPA – 9.2,
Vellore Institute of Technology	Narayana(State Board)	Narayana (State Board)

PROJECTS/RESEARCH PAPER

Project 1 : Cybersecurity Incident Detection using ELK Stack

Built an automated monitoring system using the ELK stack (Elasticsearch, Logstash, Kibana) to detect and analyze security threats. Configured the platform to aggregate logs from different sources and generate real-time alerts for security incidents. (Technologies: ELK Stack, Python, Docker)

Project 2 : Digital Forensics Data Recovery Platform

Developed a platform to recover and analyze digital evidence for forensic investigations. Integrated features to handle disk imaging, data recovery from damaged drives, and analyzing digital footprints in cybercrime cases. (Technologies: Python, Autopsy, FTK Imager, Sleuth Kit)

Project 3 : Penetration Testing and Vulnerability Assessment Platform

Developed an internal tool to perform automated penetration testing, vulnerability scans, and security audits. The tool integrates with Metasploit and OWASP ZAP for continuous threat detection.
(Technologies: Python, Metasploit, OWASP ZAP, Nmap)

Project 4 : Multi-Utility Data Encoding and Compression Tool

Designed a tool for encoding data streams, encrypting large files, and compressing them for efficient storage. Includes functionalities for secure data management and space-saving compression. (Technologies: Python, C++, OpenCV, AES Encryption, Docker)

CERTIFICATIONS

- Oracle Cloud Infrastructure Foundations Associate
- MERN stack developer by ETHNUS
- Blockchain developer by Nasscom
- Google Project Management: Professional
- Microsoft Cybersecurity Analyst Professional

ACHIEVEMENTS/AWARDS

- 1st place in Cryptography hackathon by NextGen Cloud
- 1st place Build a Web app hackathon
- Runner up in Geekify hackathon
- 1st place in Evolve hackathon by IBM
- 1st DIMO Hacks (Blockchain based hackathon)