DONEPUDI DHEERAJ SAI

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OBJECTIVE

Enthusiastic Cybersecurity practitioner with a strong background in SOC monitoring, penetration testing, and ethical hacking. Proficient in Python for security automation and scripting, and skilled in full-stack development for building secure applications. Experienced in vulnerability assessment and implementing robust security solutions.

EDUCATION

Education Level	Institution	Location	Duration	Score
Bachelor of Technology in Computer Science (Cyber Security)	Vasireddy Venkatadri Institute of Technology	Guntur	2021 – 2025	CGPA: 7.5
Intermediate	Sri Chaitanya Junior College	Vijayawada	2019 – 2021	Percentage: 85%
School	Sri Chaitanya International Olympiad	Vijayawada	Completed: 2019	Percentage: 80%

CORE SKILLS

Security & Monitoring

- SOC Monitoring: Splunk, QRadar
- Penetration Testing & Ethical Hacking: Metasploit, Burp Suite, Nmap
- Vulnerability Assessment: Nessus, OpenVAS, Wireshark
- Network Security: Firewalls, VPNs, TCP/IP, IDS/IPS
- Operating Systems: Linux (kali, Ubuntu)

Development & Automation

- Python (Security Automation & Scripting)
- Full-Stack: React, Node.js, MongoDB
- Web Technologies: HTML5, CSS3, JavaScript
- Cloud Platforms: Azure, AWS
- Databases: SQL (MySQL)

INTERNSHIP EXPERIENCE

Cybersecurity Intern — Palo Alto Networks

Dec 2022 – Feb 2023

- Configured and managed firewall policies to enhance security.
- Conducted vulnerability assessments and penetration testing.
- Monitored security logs using Splunk and QRadar.
- Investigated incidents and helped design response strategies.

Fortinet Network Associate Intern

Mar 2024 – May 2024

- Completed FNA program; gained solid understanding of Fortinet Security Fabric.
- Configured FortiGate firewalls: segmentation, NAT, VPNs.
- Used FortiAnalyzer & FortiManager to detect anomalies.
- Simulated threat scenarios using IPS, antivirus, and web filtering.

PROJECTS

1. Advanced Malware Detection Using Deep Learning in EDR System

The execution of the project "Advanced Malware Detection Using Deep Learning in EDR System" involved a systematic approach beginning with the collection of a diverse dataset comprising both malicious and benign executable files from malware repositories and clean software sources. These files underwent preprocessing to extract relevant static and dynamic features such as opcode sequences, API calls, file size, and header information, which were then encoded into numerical vectors suitable for machine learning input. A deep neural network (DNN) was designed using frameworks like TensorFlow or PyTorch, comprising multiple hidden layers with ReLU activation and an output layer using sigmoid or softmax for binary classification. The model was trained using labeled data with binary cross-entropy loss and optimized via the Adam optimizer, while performance was validated using metrics like accuracy, precision, recall, and F1-score to ensure minimal false positives and high detection rates. After training, the model was integrated into a prototype Endpoint Detection and Response (EDR) system that monitored endpoints in real time and automatically scanned files, triggering responses like alerts or quarantines when malware was detected. A web-based graphical user interface (GUI) was also developed using HTML, CSS, and backend frameworks such as Flask or Django, allowing users to upload files and receive instant analysis results from the model. The complete system was then tested in a controlled environment with both known malware and clean files to validate its effectiveness, responsiveness, and scalability before deployment, demonstrating a fully functional, AI-powered malware detection framework capable of protecting endpoint systems in real time.

2. Customer Web App for Restaurant Order (QuickBite)

The QuickBite Food Delivery Web Application is a full-stack platform designed to streamline online food ordering and delivery, built using a modern tech stack including HTML, CSS, JavaScript, React for the frontend, Python Flask for the backend API, and MongoDB for the database. The user interface is crafted with React components that provide a seamless and responsive experience for browsing menus, viewing restaurant details, adding food items

to a cart, and placing orders. Flask serves as the backend engine, handling RESTful API requests for user authentication, menu retrieval, order processing, and admin functionalities, while MongoDB stores dynamic data such as user profiles, food items, restaurant information, orders, and cart details in collections. The application features real-time cart updates, secure login/register functionality, order tracking, and an intuitive admin dashboard for managing restaurants, menus, and order histories. The integration between frontend and backend is handled through Axios or Fetch API calls, ensuring smooth data flow and minimal latency. QuickBite also incorporates essential UX elements such as responsive design, image optimization, loading animations, and basic validation to enhance the user journey from login to checkout. The project demonstrates efficient use of MERN-inspired design patterns (with Flask replacing Node.js), modular coding, and scalability considerations, making it ideal for deployment in both small-scale food businesses and larger restaurant chains seeking a custom, end-to-end food delivery solution.

SOFT SKILLS

- Analytical Thinking
- Clear Communication
- Team Collaboration
- Attention to Detail
- Adaptability to New Tech/Hybrid Environments

CERTIFICATIONS

- Cybersecurity Professional Certification
- Fortinet Network Associate Certification
- Python Programming Certification
- HTML, CSS, and JavaScript Certification