Goutham Reddy Bhumireddy

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PROFILE

Cybersecurity graduate student with expertise in web security, risk management, and phishing simulation techniques. Certified by ISC2, with hands-on experience in threat analysis, network defense, and cybersecurity automation. Passionate about securing enterprise systems and educating users through interactive security tools.

EDUCATION

University Of Central Missouri,   08/2023-05/2025

Master's In Cybersecurity and Information Assurance

Course Work: Web application Security | Disaster Management | Information Assurance | Advanced Networking | Business Recovery | Risk Management.

PROFESSIONAL EXPERIENCE

Smart Bridge, **Salesforce Developer Catalyst Intern**

- Automated business workflows using Apex, Improving process efficiency by 30%.

- Developed secure API integrations to protect sensitive customer data.

- Earned Apex Specialist & Process Automation Super Badges, demonstrating, secure coding preferences.

SKILLS

Networking: TCP/IP, Subnetting, Firewalls, VLANs, Network Handling.

Security Tools: Burp Suite, Wireshark, OWASP ZAP, NETASPLOIT.

Programming: Python, C, HTML/CSS, Bash Scripting.

Databases: MYSQL, MongoDB.

Operating Systems: Windows, Linux (Ubuntu, Kali).

CERTIFICATES

ISC2 Certified Cybersecurity (CC) - Demonstrated fundamental security principles & Risk management.

IBM Cybersecurity Tools & Attacks – Hands-on experience in penetration testing and malware analysis.

EC-Council SQL injection Attacks – Developed Secure web applications and prevented database breaches.

IBM Cybersecurity Compliance & Frameworks – Understanding of NIST, ISO 27001 and SOC2.

IBM Operating Systems: Administration & Security - Administered Windows & Linux Environments.

PROJECTS

Enhancing Cybersecurity Awareness Through Phishing Simulation

- Built a Flask-based phishing simulation that multiple users, tracking email interaction rates.
- Measured Security awareness improvement, reducing phishing link click-through rates by 40%.
- Designed a reporting dashboard that analyzed high-risk users.

Malicious URL Detector by Chrome Extension

- Developed a real-time malicious URL scanner using JavaScript, JSON-based threat intelligence.
- Designed a background script for real-time URL analysis and rule-based filtering.
- Created an interactive popup UI display threat alerts and enhance user experience.

Cybersecurity Chat Bot

- Developed an AI-powered chatbot using FLASK & OpenAI API to provide real-time security guidance.
- Implemented secure input handling to prevent prompt injections & adversarial attacks.
- Designed a fallback knowledge base of predefined cybersecurity topics for better accuracy.

Analyzing and Mitigating Social Engineering Attacks

- Researched modern social engineering attack vectors (Phishing, Pretexting, Baiting, etc.).
- Conducted a user behavior study with survey-based simulations to assess awareness levels.
- Proposed counter measures that reduced social engineering success rates by 35% in a simulated environment.

Enhancing IOT devices With AI: A study on integration and impact.

- Researched AI-driven security enhancements for IOT, focusing anomaly detection & automated threat responses.
- Created a case study on AI-IOT implementations in smart homes, healthcare & industrial IOT.
- Examined the role of AI in developing the functionality and IOT devices efficiency.

ORGANIZATIONS

Cybersecurity Club (ACME) – Execution Team Lead

- Organized and led multiple cybersecurity workshops and events, including sessions on phishing defense, malware analysis, cybersecurity basics, quizzes, and non-technical activities.
- Lead a team of 13 members to develop practical skills and foundational knowledge for new students.