Aaruth V P

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LinkedIn | GitHub | TryHackMe

SUMMARY

Cybersecurity-focused CSE student specializing in network security, Linux administration, Windows domains, and secure coding. Skilled in Java, Python, Bash scripting, with hands-on experience using tools such as Nmap, Wireshark, Splunk, and penetration testing frameworks. Passionate about defensive security, threat detection, and incident response, with practical exposure through internships, labs, and Capture the Flag (CTF) challenges.

SKILLS

Programming Languages: Java, Python, Bash, HTML, CSS, JavaScript
Cybersecurity Tools: Nmap, Wireshark, Splunk, Burp Suite, Metasploit
Operating Systems: Linux (Ubuntu, Kali), Windows Server & Active Directory
Networking & Security: TCP/IP, DNS, DHCP, VPNs, Firewalls, IDS/IPS
Other Skills: Databases (MySQL), Bug Bounty, After Effects
Languages: English, Hindi, German

WORK EXPERIENCE

Intern – Software Developer | March 2025 – April 2025
- Assisted in developing and testing secure software solutions, applying secure coding practices.
- Collaborated with senior developers to fix bugs and optimize performance.
- Contributed to debugging and improving application reliability, reducing error rates by 15%.

Intern – LLM Security | July 2025 – September 2025
- Researched and implemented AI-driven approaches to enhance security monitoring.
- Developed scripts to automate threat detection and log analysis.
- Assisted in building proof-of-concept tools integrating LLMs for cybersecurity defense.

ACHIEVEMENTS / PROJECTS

- **ModusMapping Project:** Designed an AI-driven analytical tool to analyze police records and uncover criminal patterns through modus operandi mapping.
- **Blue Team AI Model:** Fine-tuned TinyLLaMA using LoRA for defensive cybersecurity responses, improving detection accuracy in simulated environments.
- **Crescendo-Style Linux Privilege Escalation Study:** Implemented and documented privilege escalation techniques for security research and detection.
- **PyRIT Security Automation:** Built a pipeline using AI models to execute prompts, evaluate responses, and automate JSON-based security reporting.

EDUCATION

Bachelor of Engineering (CSE – Cyber Security)
K.S.R Institute for Engineering and Technology | 2023 – 2027

Higher Secondary Education
Sri Sathya Sai Matric Higher Secondary School, Chithode | Completed 2023

COURSES

- Linux Fundamentals – Coursera (June 2025)
- Career Essentials in Cybersecurity – Microsoft (August 2025)

HOBBIES

Capture the Flag (CTF) challenges, Cybersecurity research, Gaming