AKHIL AKASH B

ENTRY- LEVEL SOFTWARE ENGINEER | CYBERSECURITY ENTHUSIAST

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PROFESSIONAL SUMMARY

Enthusiastic cybersecurity and software engineering postgraduate with strong analytical and problem-solving skills. Skilled in cybersecurity tools, threat analysis, and secure system design. Passionate about learning, innovation, and building reliable, secure software solutions.

EXPERIENCE

December 2024 – January 2025 **(Virtual Internship) - Cybersecurity, Centre for Development of Advanced Computing (CDAC), Noida**

- Analyzed risks from open port exploitation using Nmap and Nessus.
- Mastered 6 tools including Wireshark, Amass, and keyloggers for vulnerability assessments.

May 2024 - June 2024 **Internship - AI Internship Program, Swecha**

- Developed ML models for natural language and pattern recognition in a cultural data preservation project using Python and scikit-learn.

September 2022 - November 2022 **Internship - Cybersecurity, Eduversity**

- Conducted penetration testing with Wireshark and Nessus.
- Prepared analysis reports during the Eduversity internship

EDUCATION

M.E. Cyber Security (2025)
University College of Engineering, Osmania University, Hyderabad CGPA: 8.2

B.E. Computer Science and Engineering (2023) Methodist College of Engineering and Technology, Hyderabad GPA: 6.96

CERTIFICATIONS

- Cisco PCAP - Programming Essentials in Python
- Cisco Cyber Threat Management
- CEH(Pursuing)

SKILLS

- **Programming Languages:** Python, C, C++, Java, R, SQL, HTML.
- **Digital Forensics Tools:** Autopsy, Volatility, Sleuth Kit, FTK Imager, EnCase.
- **Cybersecurity Tools:** Wireshark, Nmap, Nessus, Metasploit, Burp Suite, Snort, Amass.
- **Cybersecurity Tools & Concepts:** Penetration Testing, Vulnerability Assessment,Ethical Hacking, Risk Analysis, Open Port Exploitation, Threat Modeling, Incident Response.

ACADEMIC PROJECTS

- ### USB Rubber Ducky Defender

  - Developed a Python-based cybersecurity tool using RandomForestClassifier to detect maliciousUSB devices with 99.85% accuracy via static (URDS Dataset) and behavioral (DDBD Dataset) analysis.
  - Implemented real-time USB threat monitoring with PyUSB and PyQt5 GUI, integrating lowlevel blocking (Windows API/Linux udev) to eject devices in
  - Engineered 1,000-sample Static Dataset and 10,000-entry Behavioral Dataset(27 features),enabling robust detection of USB threats like Rubber Ducky in diverse environments.

- **GNN-DTA: Graph Neural Network for 5G Intrusion Detection**

  - Built a GNN-based model using PyTorch, achieving 98.47% accuracy on 5G-NIDD dataset (1.2M samples).

  -Used GCN/GAT layers and SMOTE to handle class imbalance, with explainable anomaly subgraphs.

- **Real-Time Adversarial Prompt Detection with Fine-Tuned BERT, Reinforcement Learning, and Explainable AI**

  -Created a BERT and PPO-based tool to detect malicious prompts with high accuracy on a 3,600prompt dataset.

  -Integrated SHAP for transparent anomaly detection via Streamlit with semantic graph insights.

- **Detection of Cyber Attacks in Networks:** Implemented machine learning algorithms to detect cyberattacks with a high degree of accuracy.

INTERPERSONAL SKILLS.

Teamwork & collaboration, Self-confidence & motivation, Quick learning & adaptability, Strong work ethic.

ACHIVEMENTS AND ACTIVITES

- Won **3 rd Prize** in a Project Expo at GNITS(W) College for innovative cybersecurity project.
- Selected among the**Top25 teams** in the *Pride of HyderabadHackathon* under the **Cybersecurity domain**, **conducted by DEET & TASK, Government of Telangana**, and recognized for innovation and problem - solving skills.

Languages Known:

English, Telugu, Hindi.