

KAINURU BALAJI

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Education

IIIT Sri City

B.Tech in Computer Science Engineering; CGPA: 7.73/10

Sri City, AP

2023 – 2027

Technical Skills

Languages: Python, C, Java, Bash, SQL

Cybersecurity: Honeypots, IDS, Malware Analysis, Phishing, Network Security

Tools: Nmap, Wireshark, Burp Suite, GoPhish, Metasploit

Web & OS: HTML, CSS, JavaScript (Basics), Flask, Kali Linux, Ubuntu, Windows

Version Control: Git, GitHub

Projects

Interactive Honeypot for IoT using Reinforcement Learning (Ongoing)

2025

Python, Reinforcement Learning, Networking

- Developing an adaptive IoT honeypot that modifies responses based on attacker behavior.
- “Using reinforcement learning to adapt deception and attacker engagement strategies.”

Host-Based Intrusion Detection System using Reinforcement Learning (Ongoing)

2025

Python, Reinforcement Learning, System Security

- Developing an adaptive IDS to detect anomalous host activity using RL policies.
- Focusing on reducing false positives through continuous learning.

Android Malware Detection using Machine Learning

2024

Python, Machine Learning

- Built ML models to classify benign and malicious Android applications.

Phishing Attack Simulation using GoPhish

2024

GoPhish, Kali Linux

- Conducted end-to-end phishing simulations and analyzed campaign effectiveness.

Problem Solving

Solved **32+** DSA problems on LeetCode (ongoing).

Leadership

Cybersecurity Domain Lead

2025 – Present

IOTA Technical Club, IIIT Sri City

Certifications

- **Ethical Hacking** – Information gathering, Nmap, OS basics 2024
- **Python Programming** – APIs, OOP, scripting (Udemy) 2025
- **CompTIA PenTest+** (Udemy Course Completion) 2025