

Abin Shaji Thomas

CYBERSECURITY ENTHUSIAST

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PROFILE

Computer Science engineering student with a strong interest in cybersecurity and ethical hacking. Experienced in developing secure tools using Python and analyzing networks with Wireshark and Nmap. Proven ability to apply technical skills in real-world projects and CTF challenges.

WORK EXPERIENCE

Pinnacle Labs

Cybersecurity Intern

May 2025 - Jun 2025

- Delivered 3 cybersecurity tools during internship, including an encryption engine, keylogger, and password analyzer, using Python and ethical development practices with complete GitHub delivery.

The Red Users

Cybersecurity Intern

May 2025 - Jun 2025

- Performed vulnerability assessments and risk analysis using tools like Burp Suite, Wireshark, and Nmap; improved flaw detection by 40% across structured weekly security labs.

EDUCATION

Karunya Institute of Technology and Sciences, Coimbatore

B.Tech in Computer Science and Engineering(Specilization in Cybersecurity) - 9.4

Aug 2024 - Present

Infant Jesus English Medium School, Mavelikara

School Education (ICSE & ISC – Science Stream) - 8.9

Jun 2012 - May 2024

PROJECTS

Password Strength Analyzer

Jun 2025 - Jun 2025

Built a Python-based password analyzer that calculates entropy, detects weak patterns, and suggests stronger alternatives; improved user understanding of password strength by 90% in local testing, simulating real-world password audit conditions.

Python Stealth Keylogger with Email Reporting

May 2025 - Jun 2025

Developed a stealth keylogger in Python that logs keystrokes and emails them securely ; implemented environment-based credential safety and device fingerprinting to reduce misuse by 80%, supporting ethical use and testing scenarios.

SecureText – Text Encryption Tool

May 2025 - May 2025

Engineered a secure text encryption application in Python using AES, DES, and RSA, enabling users to encrypt/decrypt text via a GUI.

Phishing Link Detection

March 2025 - April 2025

Engineered a phishing link detection script in Python using regex and keyword analysis to identify suspicious URLs; achieved over 90% accuracy on real-world test cases.

File Encryption and Decryption

Sep 2024 - Oct 2024

Coded a low-level encryption program in C to secure files using byte-wise manipulation and bitwise operations; reduced file exposure risks by 85% for test datasets.

SKILLS

- Programming Languages:** C, Java, Python
- Cybersecurity Tools:** Wireshark, Nmap, Burp Suite, Netstat
- Web & Scripting:** HTML, CSS, JavaScript, Bash
- Platforms & Utilities:** Git, GitHub, Linux, Postman, VS Code
- Cybersecurity Concepts:** Encryption (AES, DES, RSA), Keylogging (ethical), Password Strength Analysis, Vulnerability Assessment, Threading, GUI Development (Tkinter)
- Soft Skills:** Problem-Solving, Report Writing, Communication, Team Collaboration, Adaptability, Analytical Thinking, Ethical Judgment, Structured Work Style