

Abin Shaji Thomas

CYBERSECURITY ENGINEER

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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

- Developed 3 production-ready cybersecurity tools: an AES/DES/RSA encryption utility, a stealth keylogger with secure email reporting, and a password strength analyzer.
- Completed all tasks independently with secure code, `.env`-based configurations, and GitHub documentation.
- Enhanced stealth tool delivery with anti-piracy tracking, improving misuse detection by 80%.

The Red Users

Cybersecurity Intern

May 2025 - Jun 2025

- Conducted vulnerability assessments and basic penetration testing across simulated environments.
- Used tools like Burp Suite, Wireshark, and Nmap to identify and report web application flaws.
- Improved detection and reporting accuracy by 40% through weekly structured lab modules.

EDUCATION

Karunya Institute of Technology and Sciences, Coimbatore

B.Tech in Computer Science and Engineering(Specialization 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

Developed a password strength tool that improved weak password detection by 70% during user testing.

Python Stealth Keylogger with Email Reporting

May 2025 - Jun 2025

Created a stealth keylogger with automatic email alerts; tested on 5 devices with 100% background execution success.

SecureText – Text Encryption Tool

May 2025 - May 2025

Built a secure text encryption tool with GUI, used by 30+ testers to encrypt/decrypt sensitive messages securely.

Phishing Link Detection

March 2025 - April 2025

Identified 90% of phishing URLs in a dataset of 100+ using pattern-based detection with regex and keyword scoring.

File Encryption and Decryption

Sep 2024 - Oct 2024

Built a file-level encryption utility in C that secured documents with XOR/bitwise logic, tested on 10+ files.

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, `.env` Configuration, Email Automation (smtplib), GUI Development (Tkinter)
- **Soft Skills:** Problem-Solving, Report Writing, Communication, Team Collaboration, Adaptability, Analytical Thinking, Ethical Judgment, Structured Work Style

CERTIFICATE

Microsoft SC-900: Security, Compliance & Identity Fundamentals

IBM: Cybersecurity Fundamentals