

ASWIN MATHEW

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SUMMARY

Cybersecurity practitioner and security tool developer with hands-on experience in digital forensics, vulnerability assessment, penetration testing, and OSINT. Creator of open-source security tools for forensic analysis, automated pentesting, and reconnaissance. CEH certified with strong foundations in incident response, log analysis, network defense, and evidence preservation across Windows and Linux environments.

TECHNICAL SKILLS

- **Cybersecurity:** Vulnerability Assessment, Penetration Testing, Ethical Hacking, Threat Detection, SOC Fundamentals
- **Digital Forensics:** Evidence Collection, Disk Imaging, Memory Analysis, Chain of Custody, ACPO Compliance
- **OSINT & Recon:** Username Enumeration, Domain Intelligence, WHOIS, DNS/SSL Analysis, Subdomain Enumeration
- **Security Tools:** Nmap, Wireshark, Burp Suite, Metasploit, Nikto, Nuclei, Gobuster, Autopsy, Volatility
- **Network Security:** TCP/IP, DNS, DHCP, VPN, Firewall Configuration, Packet Analysis, Traffic Inspection
- **Programming:** Python, Bash, JavaScript, HTML/CSS — security automation & tool development
- **Systems:** Kali Linux, Ubuntu, Windows 10/11 — hardening, Active Directory, SIEM concepts

SECURITY PROJECTS

ForensX Lab — *Digital Forensics Toolkit*

[GitHub](#) | [Live Demo](#)

- Built all-in-one browser-based forensics toolkit: hash calculator (MD5/SHA-256/SHA-512), hex viewer, metadata extractor, steganography detector, file signature analyzer, and string extractor
- Developed ACPO-compliant chain of custody logging, evidence registry, and court-admissible report generator
- Engineered as zero-dependency, 100% client-side app using vanilla JS and Web Crypto API — no data leaves the browser

Recon.py — *OSINT Reconnaissance Tool*

[GitHub](#)

- Developed 6-module OSINT tool: username scan (80+ sites), email intel, phone lookup (200+ countries via embedded ITU DB), domain WHOIS/DNS/SSL, IP geolocation, and subdomain enumeration via crt.sh
- Built with threaded scanning (25 workers), raw TCP socket WHOIS, and Google DoH DNS — pure Python, zero dependencies

WebPentest — *Automated Penetration Testing Framework*

[GitHub](#)

- Created Bash-based pentest orchestration integrating Nmap, Gobuster, Nikto, Nuclei, and Burp Suite with SSL auditing, CMS scanning (WordPress/Joomla/Drupal), SQLi detection, and HTML report generation

CVE-CLI — *Vulnerability Intelligence Tool*

[GitHub](#)

- Built Python CLI for searching NVD, tracking CVEs, and exporting vulnerability reports for pentesters and developers

TECHNICAL EXPERIENCE

- Performed vulnerability assessments and penetration tests on web applications and network endpoints
- Conducted forensic investigations on Windows/Linux — disk imaging, memory analysis (Volatility), artifact extraction (Autopsy)
- Analyzed network traffic using Wireshark for packet-level investigation and threat identification
- Configured and hardened systems — firewall rules, VPN, endpoint protection, patch management
- Investigated and documented security incidents following chain of custody and evidence integrity principles

EDUCATION

PGP in Cyber Forensics — Blitz Academy	Expected 2026
BSc Cyber Forensics — Cochin Arts and Science College	2022 – 2025
Higher Secondary Education — Nirmala HSS	2020 – 2022

CERTIFICATIONS

Completed:

CEH (Certified Ethical Hacker) – TUV SUD |

CNSP (Certified Network Security Practitioner) – The SecOps Group |

CCEP (Certified Cyber Ethics Professional) – Red Team Leaders |

Foundations of Log Analysis for Cyber Defense – Red Team Leaders |

Fundamentals of Game Hacking Development – Red Team Leaders |

Cybersecurity Threat Landscape – LinkedIn Learning

In Progress: CEH – EC-Council | CPENT – TUV SUD & EC-Council | LPT – TUV SUD & EC-Council
| CHFI – TUV SUD & EC-Council | SOC Analyst – TUV SUD & EC-Council

ADDITIONAL

- Participated in CTF challenges, forensic labs, and hands-on security research
- Conducted seminars on cyber awareness, ethical hacking, and digital safety
- Developed secure web applications with authentication, RBAC, and XSS/SQLi defenses (Arabian World Tours, Abu Dhabi; Govt Arts & Science College, Thrithala)
- NSS Volunteer — community service and team coordination
- **Languages:** English, Malayalam, Tamil