Kushar Dogra

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WORK EXPERIENCE

Web Developer Aug 2023 – Aug 2024
Quindl Technologies, Coimbatore, India

- Delivered 4 full-stack web applications (e-commerce platform, booking system, admin dashboards) serving 300+ users across client projects, meeting a 4-month delivery deadline.
- Designed and implemented database schemas with role-based access controls, enforcing admin/user privilege separation across all applications.
- Conducted code reviews within a team of 5–10 developers, identifying security misconfigurations and ensuring adherence to secure coding practices.
- Integrated security-by-design using Django's security framework: CSRF protection, XSS prevention, input sanitization, secure session handling, and HTTPS enforcement.

CYBERSECURITY PROJECTS

Binary Exploitation & Vulnerability Research

- Completed 6+ buffer overflow challenges, exploiting stack-based vulnerabilities in SUID binaries using custom shellcode, ret2libc, and stack canary bypasses; scored 96.5% on Buffer Overflow CTF.
- Performed SQL injection and command injection attacks on 3+ web applications for authentication bypass and data extraction.
- Executed 4+ Unix privilege escalation techniques: SUID/SGID misconfigurations, environment variable manipulation, symlink attacks, and insecure system() calls.

Network Security & Penetration Testing

- Executed full 5-phase penetration tests on multi-VM environments: reconnaissance, scanning, exploitation (Metasploit), privilege escalation, and post-exploitation with flag capture.
- Conducted OSINT reconnaissance on target domains using Spiderfoot, Shodan, and Censys; performed brute-force attacks with Hydra against SSH and web authentication.
- Configured 3+ firewall environments (IPFire, iptables) with NAT, traffic filtering, rate limiting, and packet logging; performed WPA2 handshake capture and decryption with Aircrack-ng.

Intrusion Detection & Threat Monitoring

- Deployed Snort IDS/IPS with 10+ custom detection rules for SQL injection, XSS, and CVE-based attacks; analyzed false positive rates and tuned rule thresholds.
- Configured NetFlow monitoring on AWS EC2 with ntopng; captured and analyzed 24+ hours of live traffic to identify attack patterns.
- Analyzed 5+ network captures (PCAP) with Wireshark identifying credential theft, DNS attacks, and protocol-level vulnerabilities across HTTP, IMAP, and POP3.

Security Infrastructure & Compliance

- Built Docker-based Kerberos SSO for 2 services (SSH, Apache); managed realm configurations, service principals, and keytab authentication.
- Configured system hardening across 3+ environments: SSH hardening, Apache secure configuration, and Linux server administration.
- Performed OpenSCAP, OSSEC, and Auditd vulnerability/compliance scans; developed 2 incident response playbooks aligned with NIST 800-61 framework.

TECHNICAL SKILLS

Security Tools: Burp Suite, Metasploit, Snort, Wireshark, Nmap, Nessus, Aircrack-ng, Hydra, GDB, pwntools, OpenSCAP, OSSEC, Auditd, GPG, OpenSSL, ntopng, IPFire
Focus Areas: Penetration Testing, Vulnerability Assessment, Binary Exploitation, OSINT, IDS/IPS, Web Application Security, Incident Response, System Hardening
Programming & Cloud: Python, Django, Bash, SQL, HTML/CSS/JavaScript, AWS EC2, GCP, Docker, Git, Kubernetes RBAC, iptables
Compliance: NIST 800-53, ISO 27001, CIS Benchmarks, OWASP Top 10

EDUCATION

Northeastern University, Boston, MA. Sept 2024 – May 2026 (Expected)
Master of Science in Cybersecurity – Khoury College of Computer Sciences

Kumaraguru College of Technology, Coimbatore, India Aug 2020 – May 2024
Bachelor of Technology in Information Technology

ADDITIONAL

Projects: Real-Time Audio Translation API (Python, NLP/ML) | Anneta – Financial Management Website (RBAC, Secure Payments) | Project Management Portal (100+ Student Projects)
Certification: CompTIA Security+ (in progress)