MANOJ KUMAR SHARMA

Cybersecurity & Software Professional
Jaipur, Rajasthan, India
sharmamanojkumar697@gmail.com | GitHub: Manoj-2424150118 | LinkedIn: ManojTheGeek | Portfolio

PROFESSIONAL SUMMARY

Cybersecurity and software professional (MCA, Manipal University Jaipur; BCA in Cloud Technology & Information Security) developing in Python, Java, Kotlin and SQL within a secure SDLC. Hands-on experience in vulnerability assessment, network forensics, security monitoring, threat-intelligence and IoC analysis. Creator of Aegis, a full-stack personal cyber-defense platform, and Deceptive-Net, a WGAN-GP honey-token framework aligned with NIST. AI Fellow at Handshake AI, evaluating AI models and optimising GPU workloads; seeking roles in cybersecurity, web development, DevSecOps and cloud security.

TECHNICAL SKILLS

Security Operations & Testing: Vulnerability Assessment & Penetration Testing, Security Monitoring, Threat Intelligence & IoC Monitoring, Network Forensics, Log Analysis, Risk Registers, Incident Escalation (SLA), Mobile Security (Android, Firmware Analysis), Risk & Compliance (NIST) | **Tools:** Nmap, Wireshark
Engineering: Python, Java, Kotlin, SQL, PowerShell, Full-Stack Web Development (React, TypeScript), DevSecOps (Secure SDLC), Cryptography (KMAC DRBG), Technical Documentation
AI & Cloud: GANs (WGAN-GP) & AI Security, AI Model Training & Evaluation, GPU Optimisation, Cloud Architecture

PROFESSIONAL EXPERIENCE & INTERNSHIPS

AI Fellow — Handshake AI, Fellowship Program Jul 2026 – Present
- Train and evaluate AI models to reduce false and misleading information, cross-checking responses against verified sources across platforms for accuracy.
- Optimise GPU usage for multithreaded, GPU-accelerated programs to improve model training performance and throughput.

Cyber Security Intern — Plasmid Innovation Pvt. Ltd. (with MSME DFO) [Certificate] Mar 2025 – May 2025
- Conducted structured vulnerability assessments and documented findings in formal risk registers aligned with digital resilience frameworks.
- Monitored threat-intelligence streams for indicators of compromise (IoCs) within defined SLAs; analysed network traffic with Nmap and Wireshark for root-cause analysis.

Content Writing Intern — Earth5R Foundation (NGO) [Certificate] Jan 2024 – Mar 2024
- Synthesised sustainability datasets into research briefs and executive-level policy documentation.

Content Writing Intern — Marpu Foundation (NGO) [Certificate] Jan 2024 – Feb 2024
- Drafted public-awareness documentation and institutional reports to rigorous editorial standards.

TECHNICAL PROJECTS

Aegis — Personal Cyber Defense Platform | Full-Stack Security Product [View Repository] Oct 2026
- Built a production-grade platform (FastAPI, React, TypeScript, Docker) protecting individual users against phishing URLs, phishing/BEC email, malware attachments, weak/breached passwords and unsafe websites — ten explainable detection tools.
- Defence-in-depth: Argon2id authentication with lockout, AES-256-GCM encrypted vault, k-anonymity breach checks, rate limiting, strict security headers; 32 automated tests (84% coverage), GitHub Actions CI, CodeQL and Dependabot passing.

Deceptive-Net | Academic Capstone Project [View Repository] Jan 2026 – Jun 2026
- Engineered an AI-driven defensive system using Wasserstein GANs (WGAN-GP) to generate hyper-realistic honey-tokens and deceptive network artefacts that mislead attackers during reconnaissance; architected the end-to-end data pipeline, training methodology and evaluation metrics, aligned with NIST frameworks.

Secure Password Generator | Open-Source Developer [View Repository] Jun 2025 – Aug 2025
- Engineered a cryptographic credential utility implementing custom entropy-maximising algorithms to minimise predictable-pattern vulnerabilities; designed for secure SDLC integration with full documentation and complexity analysis.

EDUCATION

Master of Computer Applications (MCA) — Manipal University Jaipur, Rajasthan Sep 2024 – Jun 2026
Aggregate: 76% | Core Focus: Advanced Network Security, Cloud Architecture, AI, Cryptography

Bachelor of Computer Applications (BCA) — Vivekananda Global University, Jaipur [Degree] Sep 2021 – May 2024
Aggregate: 75.40% | Specialisation: Cloud Technology & Information Security (CT&IS)

CONFERENCES & PUBLICATIONS

7th ICDSA Conference, 2026 [Certificate] Jul 2026
Presented before Session Chairs — "Robust Password Generation Through KMAC DRBG: A Post SHA-2 Performance and Entropy Analysis" — Status: Under Review by Session Chair Members.

CERTIFICATIONS

Ethical Hacking Essentials (EHE) – EC-Council | Google Cybersecurity Professional Certificate – Coursera | The Joy of Computing using Python – NPTEL | Code Red Hackathon – ACIC-VGU & AIM

LANGUAGES

English (Professional Proficiency) | Hindi (Native) | Rajasthani (Native) | Gujarati (Basic)