

Sushen Kumar

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PROFESSIONAL SUMMARY

Cybersecurity and AI engineering student with 2+ years of self-driven experience building security automation tools and AI-powered applications. Experienced with RAG pipelines, vector search, OSINT automation, and full-stack development across React/Next.js, Python, and FastAPI. Certified by Fortinet and Cisco.

SKILLS

- **Offensive Security:** Metasploit, Burp Suite, Nmap, Nessus, Wireshark, OWASP ZAP
- **Development:** Python, JavaScript, Java, Node.js, React.js, Express.js, Flask, Next.js
- **AI/ML Engineering:** RAG Pipelines, Semantic Vector Search, Sentence Transformers, ChromaDB, Qdrant, Gemini API, OpenAI API, NLP, Collaborative Filtering (SVD), TF-IDF, Recommendation Systems
- **Cloud & Infra:** AWS, MongoDB, MySQL, PostgreSQL, Vercel, Docker, Qdrant, Redis
- **Soft Skills:** Problem-solving, Project management, Adaptability

PROJECTS

CineAI — AI-Powered Movie Recommendation Platform May 2026

Built a full-stack AI recommendation platform (2,992 movies, 1,439 vector embeddings) combining semantic search (sentence-transformers + Qdrant ANN) with a 4-signal hybrid ranking engine — semantic (35%), content-based TF-IDF (30%), collaborative SVD (25%), and popularity (10%) — using per-user adaptive weighting via Exponential Moving Average updates. Implemented an explainability layer via direct score attribution and a 3-tier cold-start fallback, with CPU-only inference and Redis caching across 18 REST endpoints.

Tech: Next.js, FastAPI, Python, PostgreSQL, Qdrant, Redis, scikit-learn, Docker • [github.com/alive-xd/CineAI](#) • [write-up](#)

OWASP Guard — Web-Based OWASP Top 10 Scanner September 2025

Built an automated vulnerability scanning and reporting platform that detects OWASP Top 10 (2021) issues, with batch scanning, CI/CD pipeline integration, and exportable PDF/CSV/JSON reports for pre-deployment security audits. Used by 3+ dev teams.

Tech: JavaScript, React, Node.js, Express, REST API • [github.com/alive-xd/owasp-guard](#)

Chat Decoder — AI-Powered WhatsApp Chat Analyzer August 2025

Built a privacy-first platform that turns raw WhatsApp chat exports into conversation intelligence using a RAG retrieval pipeline (ChromaDB + sentence-transformers + Gemini 1.5 Flash), enabling natural-language Q&A over chat history. Implemented per-participant sentiment analysis and an AI-generated relationship health score, with fully client-side parsing and zero raw-message server storage.

Tech: Python, Next.js, FastAPI, ChromaDB, sentence-transformers, Gemini 1.5 Flash • [github.com/alive-xd/ChatDecoder](#)

ReconX — Curated OSINT & Reconnaissance Toolkit June 2025

Built a curated OSINT and reconnaissance directory for ethical hackers and bug bounty hunters, aggregating 54+ hand-picked tools across 8 categories (network intelligence, subdomain enumeration, social media OSINT, credential verification, and more) with a category-based navigation system and an integrated browser-based pentest terminal. 500+ users.

Tech: Next.js, Tailwind CSS, Vercel • [github.com/alive-xd/ReconX](#)

CERTIFICATIONS

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| • Fortinet Certified Associate in Cybersecurity (FCA) | Apr 2025 |
| • Fortinet Certified Fundamentals in Cybersecurity (FCF) | Apr 2025 |
| • Privacy and Security in Online Social Media — NPTEL | Dec 2025 |
| • Penetration Testing and Ethical Hacking — Cybrary | Nov 2024 |
| • Ethical Hacker — Cisco Networking Academy | Oct 2024 |

ACHIEVEMENTS

- **TryHackMe — Elite, Top 1%:** Ranked in the top 1% of 3M+ learners globally. Completed 50+ rooms covering web exploitation, network security, and privilege escalation.
- **LeetCode — 300+ Problems Solved:** Solved 300+ DSA problems across Easy, Medium, and Hard difficulty, with focus on graphs, dynamic programming, and sliding window patterns.

EDUCATION

Lovely Professional University, Jalandhar, Punjab 2022 – 2026

B.Tech — Computer Science and Engineering