Rudra Verma

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PROFESSIONAL SUMMARY

CEH-certified cybersecurity professional with 1+ year of industry experience in secure software development on a production fintech platform, covering authentication, RBAC, tenant isolation and LLM prompt-injection defence. Built ML-driven tools for CVE classification and prioritization across 25,000+ vulnerabilities, and automated malware behaviour analysis mapped to MITRE ATT&CK. Proficient with Metasploit, Burp Suite, Nmap and Wireshark. Seeking Security Analyst / SOC / VAPT roles (2027 batch).

EDUCATION

Bennett University – B.Tech, Computer Science & Engineering — Greater Noida, UP | Expected Jun 2027
CGPA: **9.08 / 10** (Semester 6 SGPA 9.37) | Coursework: Modern Cryptography, Operating Systems, Software Testing, Data Structures & Algorithms, AI

Ambition Public School – Class XII, 87.6% — Jhabrera, Uttarakhand | 2023

CERTIFICATIONS

Certified Ethical Hacker (CEH) – EC-Council, Feb 2026 (ECC0971648352) | Google Cybersecurity | Software Engineering – IIT Kharagpur (NPTEL) | Accelerated Computing – NVIDIA

EXPERIENCE

Devslane – Escecion Technologies Pvt. Ltd. — Dehradun, Uttarakhand
Software Engineer Intern — Nov 2025 – Present
*Full-stack engineer on a client's **fintech SaaS** platform: **React 18 + TypeScript**, **Django REST Framework**, PostgreSQL, Celery, Redis, **Kubernetes (GKE)**.*

- Hardened the platform: **JWT authentication hotfix**, RBAC permission matrix, tenant isolation, a secure streaming file-download proxy, and **prompt-injection guards** on retrieved text.
- Built a **RAG pipeline** for the product's LLM finance assistant: help-centre docs and 53 page guides chunked and embedded in **PostgreSQL + pgvector**, **hybrid vector + keyword retrieval** with page-aware filtering, relevance thresholds and cited answers; evaluated on a **120-question** English/Spanish set (recall@k).
- Shipped **Stripe** billing (idempotency, webhook reconciliation) and multi-company books with safe PostgreSQL backfill migrations.
- Delivered **350+ commits** across 3 codebases with pytest / Vitest regression tests and QA guides, working in Agile sprints with code reviews.

Undergraduate Research Intern – Computational Intelligence Research Group, Bennett University (under Dr. Prashant) — May 2025 – Aug 2025

- Designed a modular 3-phase architecture (preprocessing, **ViT** inference, post-processing) for an AI-based Autism Detection system.
- Containerized the ML pipeline with **Docker** for a **FastAPI** backend serving **PyTorch** models; deployed the inference API to web and mobile apps.

Velcoris (Deep-Tech Startup) – *Senior Associate, Business Research & Analysis* — Sep 2025 – Nov 2025

- Researched **15+ graphene applications** across defense, aerospace, batteries and electronics, and ran market studies on **10+ competitors** to shape early-stage strategy.
- Mentored a team of **5 junior analysts** and worked directly with the founding team on experimentation and documentation, speeding up research cycles.

PROJECTS

NNN-CVE | GitHub — *Nmap/Nikto/Nessus CVE Classification & Vulnerability Prioritization*

- Built an ML-driven CVE classifier over **25,000+ real-world CVEs** using NLP pipelines (TF-IDF, Word2Vec, BERT embeddings).
- Achieved **92%+ accuracy** classifying vulnerabilities into CWE categories and severity buckets; automated exploitability scoring to prioritize high-risk CVEs for SOC workflows.

Tech: Python, scikit-learn, PyTorch, Pandas, NVD/CVE datasets

MALSIS-CVE — *Automated Malware Behavior Analysis & CVE / ATT&CK Mapping*

- Built an end-to-end dynamic malware analysis pipeline on **Cuckoo Sandbox** extracting behavioral IOCs (API calls, registry edits, network activity).
- Mapped behavior to **MITRE ATT&CK** techniques via fuzzy matching and TF-IDF + cosine similarity, and generated HTML reports linking behavior → techniques → top-matched CVEs with risk scores.

Tech: Python, Cuckoo Sandbox, NVD API, MITRE ATT&CK, Jinja2

TECHNICAL SKILLS

Security Tools: Metasploit, Nmap, Burp Suite, Wireshark, OpenSSL, John the Ripper, Cuckoo Sandbox
Frameworks & Data: MITRE ATT&CK, CVE/NVD, CWE, IOC analysis
Languages: Python, Bash, C++, C, Java, JavaScript, TypeScript
Secure Dev: JWT auth, RBAC, Django REST Framework, PostgreSQL, Docker, Kubernetes, PyTorch, scikit-learn