# Ritika Verma

(669) 499-7975 | Cupertino, CA 95014

Spitika.tanwar7@gmail.com | Image | Inkedin.com/in/ritikaverma7 | Ogithub.com/RitikaVerma7 | Ogithub

Dynamic cybersecurity professional with over 7.5 years of specialized experience in designing and leading security programs for critical infrastructures and high-stakes products. Skilled in risk assessment, incident response, IAM, and cloud security, with expertise in leveraging frameworks like MITRE ATT&CK, OWASP Top 10, CIS, and NIST. Currently advancing offensive security skills with OSWA certification, CTFs and pursuing a master's in information systems with a focus on AI/ML security. Known for embedding robust security measures in AI/ML tech stacks to secure critical infrastructure, I aim to drive innovations in securing AI environments and lead advancements in cyber defense.

#### **EXPERIENCE**

# Santa Clara University

Santa Clara, California

**Prometheus Lab - Research Assistant** 

July 2024 – Present

Spearheading comprehensive evaluations of market tools and AI/ML security methodologies, driving the development of an indepth research paper

# Santa Clara University **Generative AI - Teaching Assistant**

Santa Clara, California

April 2024 - May 2024

Orchestrated course administration of a Generative AI, contributing to the enhancement of the educational experience for over 30 students.

### Box, Inc.

Cupertino, California

### AI / Natural Language Processing (NLP) Intern

Jan 2024 – June 2024

 Developed and implemented a recurrent neural network (RNN) with LSTM architecture, achieving 94% precision in classification tasks, enhancing data extraction capabilities from textual content.

SAP Labs

Bengaluru, Karnataka

### **Cyber Security Design Specialist**

July 2021 – April 2022

- Enhanced EDR solutions by aligning with product security incident response requirements, resulting in a 20% reduction in meantime-to-response (MTTR) and stronger product resilience against threats.
- Implemented and tailored the MITRE ATT&CK framework within the product security lifecycle, significantly improving incident response efficiency by identifying and addressing data source gaps.

### SAP Ariba

Bengaluru, Karnataka

**Security Consultant** 

April 2019 – July 2021

- Operationalized Endpoint Data Loss Prevention (DLP) for 1000+ users, including on-boarding/off-boarding, incident analysis, and investigation to prevent sensitive data disclosure outside the company.
- Managed IAM processes for 3400+ users, ensuring authorized access to the company's production environment.
- Triaged approximately 150 incidents per day, reducing false positives by over 70% through policy tuning.

### **SAP SuccessFactors**

Bengaluru, Karnataka

**Security Consultant** 

May 2018 – April 2019

Conducted over 20 vendor risk assessments, updating the vendor onboarding program to align with industry compliance standards against ISO 27001, PCI DSS, SOC, SOC2 Security Standards.

#### **Accenture**

Bengaluru, Karnataka

Security Analyst

July 2014 - May 2018

- Created and managed 10 out of 70 security standards for Securing Infrastructure, involving industry analysis and collaboration with affected business units, for ensuring adherence to the security controls.
- Spearheaded compliance and governance effort for the team, regular updates to the tool and training the team for using the tool efficiently.

#### **EDUCATION**

Santa Clara University, Leavey School of Business **Master of Science in Information Systems** 

Santa Clara, CA April 2025

GPA: 3.9/4.0 (Dean's List: Spring 2024)

Visvesvaraya Technological University **Bachelor of Engineering, Computer Science & Engineering**  Bengaluru, Karnataka

June 2014

#### **TECHNICAL SKILLS**

12011110/120111110							
Security Domain							
*	Infrastructure Security	*	DevSecOps	*	Cloud Security	*	<b>Container Security</b>
*	OWASP Top 10	*	Penetration Testing	*	Vulnerability Management	*	Threat Modeling
*	Incident Response	*	MITRE ATT&CK	*	Risk Assessment	*	Compliance
Security Frameworks & Tools							
*	McAfee DLP	*	Splunk	*	Tanium	*	Kali Linux
*	PhishMe	*	Rapid7	*	Qualys	*	NIST
*	CIS Benchmark	*	РуТМ	*	Inspec	*	BurpSuite
AI / ML Tech Stack							
*	Generative AI	*	Neural Networks	*	Natural Language Processing	*	Deep Learning
*	LLM Evaluation	*	Topic Modelling	*	LangChain	*	RAG
AI/ML Security Frameworks & Tools							
*	NIST Dioptra	*	OpenLLMetry	*	CleverHans	*	SecML
PROFESSIONAL TRAININGS AND CERTIFICATIONS							
•	OSWA, Offensive Security WEB- 200 (ongoing)						2024
•	Kubernetes, LinkedIn Learning						2024
•	Deep Learning Specialization, DeepLearning.AI						2024
•	Python Programming, Google						2023
SANS GIAC 301 Information Security Fundamentals (GISF)						2017	
<ul> <li>Administering Microsoft SQL Server 2012/2014 Databases</li> </ul>							2016
CompTIA Security+							2015

#### **PROJECTS**

2014

- **Cybersecurity Compliance and Remediation Automation** (<u>GitHub</u>) Developed a local Retrieval-Augmented Generation (RAG), providing dynamic cybersecurity recommendations and detailed remediation plans for security vulnerabilities.
- Chatbot RAG with Evaluation(*GitHub*) Created and evaluated (using LLM evaluation, Llama Index) a Retrieval-Augmented Generation (RAG) powered chatbot designed to answer questions related to auto insurance policies.
- **Lease Recommendation Application Generator** (<u>GitHub</u>) Engineered a custom application using OpenAl embeddings, resulting in a personalized relocation service platform for tailored suggestions.
- **Skincare Recommendation & Pricing System** (*GitHub*) Developed a sophisticated ML-driven system for skincare recommendation and price forecasting, achieving 85% score for classification.

# **ADDITIONAL INFORMATION**

**Leadership Experience:** President of AI Club at Santa Clara University; event organizer for internal corporate events; budget management.

**Professional Memberships:** Member of Women in Cybersecurity (WiCyS), NIST/ NICE Cybersecurity Career Ambassador **CTF Experience:** Actively participates in Pacific Hacker's CTF challenges

**Mentorship Experience:** WiCyS mentor, Generative AI mentor, providing guidance to students AI/ML projects; mentor for Company's new joiners.

Community Involvement: Monthly contributor to a children's education center from 2018 to 2022.

ISO LA 27001:2013 Lead Auditor