

Brindha Sivakumar

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Summary — Graduate student in Artificial Intelligence with 7 years of cybersecurity and infrastructure security experience. Specializes in the implementation of robust security measures and the automation of workflows to effectively mitigate risks. Currently pursuing applied research on AI threat landscape with a focus on securing the AI lifecycle, focusing on adversarial robustness against model extraction and training data poisoning within cloud-native infrastructures.

Education

University of Michigan-Dearborn <i>Master of Science in Artificial Intelligence</i>	[Expected Graduation: May 2027]
University of Limerick <i>Master of Engineering in Information and Network Security</i>	[GPA: 3.54/4]
Anna University <i>Bachelor of Engineering in Computer Science</i>	[GPA: 7.38/10]

Academic Projects & Research

- Explainable AI for Network Intrusion Detection (*Research Paper*) - Applying Causal Inference and XAI to improve alert prioritization and classification in Network Intrusion Detection Systems (NIDS).
- Politeness Detection in Text (*Project*) - Developed and compared ML approaches (SVM, LSTM, BERT) for automated politeness classification, achieving 69.2% accuracy with an ensemble system.

Professional Experience

Workday <i>Cybersecurity Engineer</i>	Jan 2023 – Oct 2024
<ul style="list-style-type: none">Designed and developed policies that act as guardrails for best practices and security standards for Kubernetes platforms using Gatekeeper with Open Policy Agent.Performed security reviews of changes in application code using IaC and CI / CD pipelines.Developed a solution to identify and remediate unused IAM roles in a large-scale organization	
Smarttech247 <i>Security Engineer- Technical Lead</i>	Jun 2020 – Dec 2022
<ul style="list-style-type: none">Managed and trained new teammates over a 6-month period and offered mentorship on duties and best practices.Developed SOAR playbooks, streamlining incident response and reducing resolution time by 50%.Identified and ingested high value assets' logs in SIEM, enhancing detection coverage and reducing false positives.	
Security Engineer	
<ul style="list-style-type: none">Spearheaded deployment, maintenance, and upgrade of security toolsets – SIEM, SOAR, UEBAManaged threat intelligence and IoC management with STIX TAXII compatible platforms.Developed automations, policies, and procedures as part of continuous improvement and provided concise technical documentation for internal use.	
Tata Consultancy Services <i>Systems Engineer</i>	Nov 2016 – Aug 2019
<ul style="list-style-type: none">Administered network and security policies in NextGen firewalls and automated system hardening for Windows and Linux servers using CIS benchmarks.Implemented antivirus and vulnerability assessment solutions, configuring policy catalogs in the central management server.	

Skills

Programming

Python, Bash, Go, Rego, Terraform, AWS Policy

Security Operations

SIEM, SOAR, UEBA, EDR

AI/ML Frameworks

PyTorch, TensorFlow, scikit-learn, Pandas, NumPy

Infrastructure Security

Kubernetes Security, Cloud Security, DevSecOps

Certifications

GIAC Cloud Security Automation (GCSA)
Certified Kubernetes Administrator (CKA)

AWS Certified Security – Specialty
Certified Kubernetes Security Specialist (CKS)