Aaditya Rengarajan

Master's Student in Cybersecurity
New York University, NY

+1-(929) 715-4928
aaditya.r@nyu.edu
aaditya.intellx.in
www.linkedin.com/in/aadityarengarajan/

Internship Experience

	Role	Term	Domain	Organization	Duration
intel	AI Engineering Intern	January 2025 - June 2025	Machine Learning, Deep Learning, Agentic AI	Intel Corporation, India	6 Months
इसरो isro	Security Operations Centre (SOC) Intern	May 2024 - July 2024	Log Server Administration, Threat Hunting, ReactJS	Indian Space Research Organization, India	1 Month, 21 Days
	Security Software Engineer	March 2022 - August 2023	Cybersecurity, Python, Face Recognition, REST API	Tactical Cyberange Simulations Pvt. Ltd., India	1 Year 6 Months
PSG HOSPITALS	Software Engineer Freelance	August 2022 - Present	ReactJS, Python3, API Development, Mobile Apps	PSG Hospitals, India	1 Year, 10 months

Education

- **Master of Science in Cybersecurity** at New York University Tandon School of Engineering.
- **Bachelor of Engineering in Computer Science and Engineering** at PSG College of Technology, Coimbatore (Affiliated to Anna University).

Projects

- **Company Security Posture Project** *Jun 2023*
  Automated reconnaissance tool for verifying company's outside visibility and security posture.
  – Built full-stack tooling capturing external network exposures; frontend UI components delivered with React.js for interactive data views.
  – Identified over 100 previously unknown public-facing assets, enabling proactive risk mitigation strategies.
  – Built optimized full-stack project that led to efficient material tracking workflows and lowered operational costs by $327,600.
- **Material Tracking Dashboard** *Jul 2019 - Nov 2021*
  Petrochemical Plant Materials Tracking for Maintenance Planners. **https://equate.intellx.in/**
  – Tracks materials and work orders for the Reliability and Maintenance Department at EQUATE Petrochemical Company
  – Adoption of tool resulted in $327,600 reduction in annual expenses.

Research Projects & Publications

- **Warfarin Dosage Estimation using XGBoost-Based Pharmacogenomic ML Framework.** Created a specialized machine learning model utilizing pharmacogenomic data and XGBoost for personalized warfarin dosage prediction. Employed XAI for model explainability and clinical validation. *Presented at IEEE International Conference on Machine Learning and Cybernetics (ICMLC), Bali, 2025. Pipeline submitted for Q1/Q2 journal publication 2026.*
- **SHADOW: System Heuristic Analysis and Detection Framework.** Designed a system for heuristic web observation analysis integrating Named Entity Recognition (BiLSTM), blockchain Proof-of-Authority, and secure cloud infrastructure. *Accepted at IEEE International Conference on Artificial Intelligence, Metaverse, and Cybersecurity (ICAMAC), Dubai, 2024.*

Awards and Recognitions

- First Prize in **IISF Space Hackathon 2024** primarily conducted by **Indian Space Research Organization** . Worked on a cybersecurity firewall framework using A.I with 92.98% accuracy, alongwith YARA/YAML Rules and pattern matching.
- **Ethically Hacked Domains:** Indian Navy (Principle Controller of Defence Accounts); Governments of India, UAE, Kuwait, Qatar; Nykaa, Razorpay, FlyBig, and other private industries.
- Recognized by **CERT-IN (Government of India), NCSC (Government of Kuwait), IT Head of FlyBig** for ethical hacking.

Positions of Responsibility

- **President**, Cybersecurity Club @ NYU: Conducting weekly industry workshops and CTF trainings for all students of NYU.
- **Executive Board Member**, OSIRIS Lab: Ensuring smooth operations of the Offensive Security, Incident Response and Internet Security Research Lab at NYU. Leading the partnership team and operations management, as well as authoring CTF challenges for CSAW.
- **Club Founder & Director**, The Eye: Created a cyber-security club within my undergraduate institution. Delivered multiple workshops as key speaker and conducted multiple hackathons and events to spread knowledge on Cybersecurity, reaching over 300 students annually.