

THARUNADITYA ANUGANTI

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OBJECTIVE

Seeking an entry-level or research-oriented role in a technology-driven environment where I can apply my analytical skills, problem-solving ability, and foundational knowledge in security and emerging technologies to contribute to innovative projects. Committed to continuous learning and delivering impactful solutions that align with organizational goals.

SKILLS

Cybersecurity Tools: Wireshark, Metasploit, Burp Suite, Nessus, Nmap, Docker.

SOC & Monitoring Tools: ELK Stack, Splunk, EDR platforms, IDS/IPS Monitoring.

Core Competencies: Machine Learning for Cybersecurity, Vulnerability Assessment, Penetration Testing, Threat Intelligence, Incident Response, SIEM tuning.

Programming & Scripting: Python, C, Bash, HTML, CSS.

Soft Skills: Leadership, Problem Solving, Teamwork, Communication, Attention to Detail, Commitment to Excellence.

EDUCATION

Master of Technology in Cybersecurity Systems and Networks. [Secured a GPA of 8.81 till 2nd Semester]
Amrita University, Amritapuri, Kerala, India 2024-2026

Relevant Courses: Modern Web application development and exploitation, System Security, Cyber Forensics and Incident Response, Network Security, Cryptography applications, Reverse Engineering and Malware Analysis, Machine learning for Cybersecurity, VAPT and IOT Security.

Bachelor of Technology in Computer Science and Engineering (Cybersecurity) [Secured a GPA of 8.19]
Vignana Bharathi Institute of Technology, Hyderabad, Telangana, India 2020-2024

Relevant Courses: Security and Incident Response Management, Vulnerability Assessment and Penetration Testing, Ethical Hacking, Cyber Crime investigation and Digital Forensics, Cryptography and Network Security and Cloud Security.

Achievements: My final-year project was selected as the best project in the department for the academic year.

Intermediate MPC [Secured a percentage of 89.2 %]
SR Junior College, Karimnagar, Telangana 2018-2020

Secondary School Education [Secured 10 CGPA]
Vivekananda Vidyanikethan High School, Metpally, Jagtial, India 2017-2018

ACADEMIC PROJECTS & PUBLICATIONS

AI-Powered Intrusion Detection Systems for IOT devices with Risk Scoring and Automated Response

AI-powered IoT security framework that integrates real-time threat detection, risk scoring, and incident response. Exploring machine learning techniques for on-device anomaly detection and lightweight forensic logging. Investigating dynamic risk-based security enforcement to adapt in real-time, aiming to reduce false positives and improve threat response efficiency.

Presented at 11th IEEE International Symposium on Smart Electronic Systems at MNIT Jaipur India

BugHunterX: A collaborative web penetration testing toolkit written in Bash script. Utilizes tools like Sub finder, Nmap, OWASP ZAP, and more for real-time vulnerability assessment, with notifications on Discord. Automated vulnerability assessments reduced manual effort by 40%.

NexGen SIEM (Security Information and Event management): A modern SOC architecture for the evolving threat landscape. Crucial in organizational security operations and leverages ELK stack, Docker, MITRE – ATT&CK framework for innovative alert systems. Enhanced threat detection and reduced incident response time by 25%. [[Explore this project](#)].

Enhancing Cyber Resilience: The Role of Threat Intelligence in Risk Management [[Explore this Seminar](#)]

Watch-Dog: Watchdog v1.0 is a Python-based program designed for capturing and analyzing network packets. It provides users with the ability to Monitor and gain insights into network traffic, making it a valuable resource for network administrators, cyber enthusiasts and anyone interested in understanding the flow of data across a network. [[Explore this Project](#)]

EXPERIENCE

Intel Corporation — Security Researcher (Graduate Technical Intern) Jun 2025 – Dec 2025 | Bengaluru, India

July 2025 – June 2026

Contributed to Intel's Threat Modeling Assistant project leveraging AI; optimized performance by reducing redundant LLM calls from $O(N^2)$ to $O(N)$ and implemented Pydantic schemas to validate LLM-generated responses. Improved system reliability and user experience by fixing UI bugs, cleaning code, and deploying the tool internally as a working proof of concept.

Assisted in BIOS penetration testing on Panther Lake firmware, identifying deprecated cryptographic algorithms and sensitive data using Ghidra and custom scripts.

Reviewed six major open-source repositories (Kubernetes, LLVM, Zephyr, Containerd, CRI-O, Trustee) for compliance with Intel's Open-Source COE standards and vetting process.

Enhanced Intel's SDL chatbot (SecBot) by migrating from EOL IGPT LLM inference APIs to Azure OpenAI GPT-4o. Improved the crawler component using Selenium WebDriver for privileged crawling of internal SharePoint and Wiki sites. Optimized the FAISS index for better search, ranking, and response accuracy; rebuilt container images with updated indexes and deployed them on Intel's internal CAAS platform. Currently responsible for feature enhancements and ongoing maintenance of the application.

Cybersecurity Internship

AICTE & Palo Alto Cybersecurity Academy

Mar, 2022 – May 2022

Certified in: Introduction to Cybersecurity, Network Security, Cloud Security, and SOC Fundamentals.

Gained practical knowledge of SOC workflows, network security, and cloud security principles.

Salesforce Developer Internship by AICTE, Smart bridge in association with Salesforce Apr, 2022 – May 2023

CERTIFICATIONS AND COURSES

Google Cybersecurity Professional (GCP)

Certified Ethical Hacker by Cisco Netacad

Certified Cybersecurity Analyst (C3SA) Premium Edition by Cyberwarfare labs

Career Essentials in Generative AI by Microsoft and LinkedIn

Cybersecurity Essentials by Cisco Netacad

AWS Academy Graduate - AWS Academy Cloud Foundations

AWS Academy Graduate - AWS Academy Machine Learning Foundations

LEADERSHIP & EXTRA-CURRICULAR ACTIVITIES

Cybersecurity Content Maker

Regularly publish articles and blogs on [LinkedIn](#) and [Medium](#) to educate cybersecurity enthusiasts about tools, technologies, and best practices

Ex- Chairperson, ABHEDYA (Cybersecurity Forum of VBIT)

Feb, 2022 – May, 2024

Organized Cybersecurity workshops and trained 400+ students in Ethical hacking and Cybersecurity awareness.

Led a team of 40 to organize the cybersecurity awareness programs across the campus.

Chronos Hackathon Winner (Organized by **EpsilonPi** Machine Learning Forum, VBIT)

Secured 2nd place among 50+ teams for developing **SubChirp**, a prototype that monitors subscription plans across applications and suggests optimal plans by analyzing user usage patterns.

Member of SHODH (Research and startup development initiative, VBIT)

Jan, 2021 – May, 2024

Developed the concept for **SWASTA**, an IoT wearable for monitoring health parameters (SpO2, heart rate) and alerting doctors during abnormal spikes via a connected application.