

DURJOY MAJUMDAR

STUDENT | ASPIRING SOC ANALYST | CYBER DEFENSE RESEARCHER

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Experience

- Security Engineer (Intern) | AJM Artificial** JUL ' 2024 - PRESENT
 - Led vulnerability assessments across 20+ web applications and implemented 15+ SOC procedures, resulting in 40% reduction in security incidents and \$30K savings in potential breach costs.
 - Designed and implemented 3-tier network architecture enhancing data isolation and reducing lateral movement risks by 70%, leading to improved compliance with industry security standards
- Student Peer Mentoring & Teaching Assistant, KL University | [Andhra Pradesh, IN]** APR ' 2022 - JUN ' 2024
 - Mentored 100+ undergraduates across 7 core security courses, achieving 95% positive feedback
 - Developed 4 comprehensive workbooks covering 50+ lab exercises, improving practical skills scores by 12%
 - Resolved 250+ technical queries with 98% resolution rate, contributing to 25% increase in average class scores
- Research Advisor, White Hat Hackers Club, KL University | [Andhra Pradesh, IN]** MAY ' 2024 - PRESENT
 - Led 6 research projects with 15+ team members, resulting in 2 IEEE-published papers. Meanwhile partnered with 5+ external entities.
 - Facilitated 24+ biweekly discussions averaging 100+ participants, with 90% attendance retention
- Technical Chair, White Hat Hackers Club, KL University | [Andhra Pradesh, IN]** MAY ' 2023 - MAY ' 2024
 - Coordinated 15+ events with 1500+ participants, achieving 92% satisfaction rate and 40% repeat attendance
 - Designed 25+ CTF challenges across 5 difficulty levels, completed by 300+ participants
 - Mentored 4 teams of 20+ members, leading to 3 successful projects.

Skills

- Technical Skills:** Threat hunting, malware analysis, log correlation, network traffic analysis, incident response, SIEM implementation and tuning.
- Tools:** Splunk, Wireshark, Nmap, Metasploit, Burp Suite, GNS3, Autopsy, Magnet AXIOM, Volatility, Snort, Suricata, Sysinternal Toolkit,
- Knowledge Areas:** MITRE ATT&CK, NIST Cybersecurity Framework, OS internals, cryptography, network protocols, cloud security, GDPR, PCI DSS
- Software Development:** C, Bash, Powershell, Python, Django, React, NodeJS.
- Environments:** Windows, Linux (Kali and CSI)
- Additional:** Experienced in academic research writing and methodologies with a track record of collaborative work in cybersecurity projects.

Certifications & Licenses

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|--|-----------|
| Nutanix Certified Associate 6 | OCT' 2024 |
| OCI GenAI Professional | JUL' 2024 |
| Oracle certified foundations associate | JUN' 2024 |
| Microsoft AI-900 (Azure AI Fundamentals) | JUN' 2024 |
| Fortinet Certified Cybersecurity Associate | MAY' 2024 |
| Google Cybersecurity Professional Certificate. | FEB' 2024 |
| Juniper Networks Certified Associate, Junos (JNCIA-Junos). | MAY' 2023 |
| [(ISC) ² Certified in Cybersecurity SM - CC. | DEC' 2022 |

Relevant Courses

- SOC Level 1 Analyst - TryHackMe
- SOC Analyst learning path - Letsdefend.
- Active Defense & Cyber Deception - Antisyphon Training.
- CCNA V7 - Cisco Netcad.
- SOC Core Skills - Antisyphon Training
- Intro To Splunk - Splunk Academy.
- Networking Basics - Cisco Netcad.
- PCAP: Programming Essentials in Python - Cisco Netcad

Projects

- AI4ECN - Novel AI enablers and systems for Edge-Cloud-Network Continuum | Submitted**
 - Representing KL University as a student researcher in a collaborative Horizon Europe project involving 17 universities, research institutes and SMEs including UCL (UK), CET (BE), Ubiwhere (Po), Telefonica Investigatigacion (ES) and Eviden/Bull (FR).
 - The funding of 7.5 Million Euro under the Horizon Europe initiative by EU, with KL university additionally securing 1.5 Crore INR from DST India, highlighting both the project's global impact and our institution's recognized role in international research.
 - My contribution focuses on the cybersecurity component of the project, ensuring that the proposed solutions are resilient and secure.
- Logalyzer: Autonomous Threat Defense System** - SIEM solution for real-time log analysis, reducing incident response time by 30% through automatic threat remediation. Enables log collection of log data from geographically isolated endpoints.
- WeCrypt** - Researched WeChat message recovery and decryption, achieving 95% success rate across 50+ databases and various scenarios.
- Sri Vinayaka Packers** - A secure, analytics-integrated website with enhanced interactivity for a local business resulting 40% more customer reach 20% inclement in sale and 30% less effort to connect customers.
- WISSAP'24** - The website of WISSAP-2024, an national winrer school for speech processing.

Research Publications

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|---|---|
| Shadow APR-ing for APR Poisoning Detection | IEEE Conf. 9th ICACCS IEEE Xplore |
| Beyond Copy-Pasting - Contextualizing LLMs for Secure Code Generation | Springer Conf. ICICDS-2024 Awaiting publication |
| Beyond Text: Nefarious Actors Harnessing LLMs for Strategic Advantage. | IEEE Conf. ISCS 2024 IEEE Xplore |
| Mitigating Software Dependency Hallucinations in LLMs: An emerging Supply Chain attack vector | IEEE Journal IEEE TDSC Awaiting Decision |
| An framework to establish governance on employee usage of LLM in cporporate. | Work in progress Survey Ongoing |

Professional Development

- TryHackMe | Online Cybersecurity Training Platform | 2022 - Present**
 - Ranked in the **top 1% globally** by consistently solving problems and developing skills.
 - Completed **158** rooms and **3** learning paths, accumulating **1000+ hours** of practical lab experience.
- LetsDefend | Online Cybersecurity Training Platform | 2023 - Present**
 - Achieved a **top 3 national ranking** with over **4.5k points** and **5698 SLA**, maintaining an **84% success rate** in security alert resolution.
 - Completed **3** learning paths, earned **61 badges**, and demonstrated proficiency with more than **500 hours** of lab exercises, including simulated SOC scenarios.

Achievements & Honors

- Finalist, Smart India Hackathon 2023:** India's largest hackathon and the world's largest open innovation model.
- Finalist, KAVACH 2023 Hackathon:** India's biggest cybersecurity hackathon.
- SII (Study In India) Scholar.**
- Independent Learner at K L University.**
- Recognized as LinkedIn's Cybersecurity Community Top Voice.**

Education

- B.Tech in Computer Science & Engineering (Specialization - Cybersecurity & Blockchain Technology)** 2021-25
 - KL University** a.k.a. KLEF. [Guntur, Andhra Pradesh, India]
- Current CGPA - 9.14