





Nour Issa

Computer / Artificial Intelligence Security Researcher · Sydney (NSW)

Socials

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Work Experience

Founder & Lead Researcher *Spectra Vulnerability Research Group* — August 2025 - Present

- A growing institute for vulnerability research and 0 Day Engineering.

Resident - LLM System Engineering *Mentiforce* - August 2025 - Present

- Developed strong communication skills through direct client interactions.

Volunteer - Event Support *Human Appeal* — August 2021 - January 2024

- Strengthened ability to work on a team under tight schedules and changing needs.
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Education

Artificial Intelligence and Machine Learning Engineering

Columbia University | Codecademy | Mentiforce - (Status Ongoing)

Applied Project – InferX

Currently developing a custom asynchronous, queue-based dynamic batching scheduler for large-language-model inference. I benchmark it against HuggingFace Transformers and vLLM, testing on a single RTX 3090 GPU. Early results show that dynamic batching improves throughput by 2× and cuts latency by 40% versus naïve batching, while vLLM delivers comparable speedups with better memory efficiency.

Vulnerability Research and Exploit Development

Charles Sturt University | Arizona State University | Maldev Academy - (Status Ongoing)

Applied Project

- **PocketVault**: A fast, USB-friendly GUI tool for encrypting and decrypting local files.
 - **Sentinel**: A defensive, cross platform host monitoring tool that collects runtime state, compares to a saved baseline, and surfaces suspicious changes.
 - **CNWC**: Web scraper from sources like Exploit DB and Zero-Day news, processes information with AI summarizations, and presents it through a custom GUI.
 - **Exploiting Android MMI for OPT Interception**
 - **py2exe**: Converts python files into a standalone Windows executable.
 - **Exploiting IoT & CCTV - Vulnerability Framework**
 - **Remote DLL Injection**
 - **Process Creation and Shellcode Execution**
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Qualities

- **Critical Thinking** – Able to assess risks, analyze situations, and act swiftly.
 - **Team Leadership** – Experience leading within dynamic environments; reliable and collaborative.
 - **High Observational Ability** – Attention to detail honed through customer service and fast-paced work.
 - **Calm Under Pressure** – Trained in de-escalation, first aid, and crisis response.
 - **Communication** – Clear, concise communication in verbal and written formats.
 - **Customer Interaction** – Background in hospitality, equipped with a professional and approachable demeanor.
 - **Dynamic** - Quickly shift from problematic situations to strategizing potential solutions.
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Certifications & Courses

CPEH · Jr Penetration Tester · Architecture 1001: x86-64 ASM · OpSec & Anonymity
Malware Development