

# Toufic Majdalani

Lynnwood, WA, USA

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**Software engineer with 7+ years Linux kernel development. Co-founded EndeavourOS (4,000+ users), contributed 10 patches to mainline kernel, developed 90% functional NVIDIA driver (10,000+ LOC) with CUDA foundation enabling ML/AI workload optimization. Expertise in C/C++, distributed systems, AI-driven security infrastructure.**

## SKILLS

**Languages & Leadership:** C, C++, Python, Bash | Team Leadership, Technical Documentation, Cross-functional Collaboration

**Systems & Infrastructure:** Linux kernel, Apache Spark, MongoDB, Docker, Microservices, Distributed Systems, CUDA/GPU compute

**Security & AI/ML:** Splunk, Prometheus/Grafana, Vault, ML pipelines, Container security, CI/CD, System hardening

## SOFTWARE DEVELOPMENT EXPERIENCE

**Co-Founder & Software Developer** Remote  
*EndeavourOS Linux Distribution* May 2019 – Oct 2019

- Co-founded Arch-based distribution achieving **4,000+ users**, **top 10 DistroWatch ranking**, **477 GitHub stars**; architected installer, GPU drivers, desktop integration in C/C++/Python/Bash.

**Kernel Developer — NVIDIA Open-Source Graphics Driver** Remote  
*Linux Kernel & System-Level Projects* Jun 2018 – Dec 2022

- Developed **90% functional NVIDIA driver (10,000+ LOC)** for RTX 2070/2080; implemented power management, memory allocation, Vulkan with **75% DLSS compatibility**; architected CUDA foundation enabling ML framework support (PyTorch, TensorFlow); **contributed 10 patches to mainline kernel**.

## TECHNICAL PROJECTS

**Malware Binary Analysis Toolkit with ML Detection** Jan 2024 - May 2024

- Built AI-powered containerized platform (**5,204 LOC Python**, **2,788 LOC Bash**) with **13-service Docker stack**, ML-based malware classification, Prometheus/Grafana/Loki monitoring, HashiCorp Vault, isolated sandbox.

**YouTube Big Data Analytics Platform** Aug 2024 - Dec 2024

- Engineered distributed system (**5,231 LOC Python**) processing **100,000 video records** at **40K-55K records/sec** with **99.9% data integrity**; implemented ML pipelines (KMeans **2.34s**, graph analytics **5.67s**).

## PROFESSIONAL EXPERIENCE

**Security Operations & Systems Administrator** Everett, WA  
*WSU CyberSecurity Lab* Jan 2024 – May 2025

- Managed infrastructure supporting **1,000+ students** with Splunk SIEM; **recovered 200+ TB** from corrupted RAID; architected LVM infrastructure.
- Served as **President of WSU CyberClub** (Aug 2023–May 2025), growing membership **5→20+ members**; organized **20+ workshops** and CTF competitions.

## EDUCATION

**Washington State University, Everett, WA** Dec. 2025  
*Bachelor of Science in Software Engineering*

- Coursework: Operating Systems, Database Systems, Software Security, CyberSecurity, AI/ML in Security, Malware Analysis, Systems Analysis.

## CERTIFICATIONS

CompTIA Security+ Certification, May 2025