MARKUS DEZELAK

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PROFESSIONAL SUMMARY

AI/ML engineer and cybersecurity professional blending 17+ years of operational leadership with hands-on experience building LLM systems, vulnerability-scanning pipelines, and AI-driven security tooling. Skilled in transforming research concepts into practical prototypes, fine-tuning models, designing RAG systems, and developing custom scanners (HaloX / Black Halo). Currently completing an M.S. in Artificial Intelligence & Machine Learning while advancing skills in PyTorch, transformers, model evaluation, and adversarial testing.

CORE COMPETENCIES

AI/ML: PyTorch, Transformers, LoRA/QLoRA, RAG, HuggingFace, Tokenization, Evaluation, Python ML, FAISS/Chroma, Dataset Curation, Experimentation, Prompt Engineering, AI Security, Adversarial ML.

Cybersecurity: Vulnerability Management, Threat Modeling, MITRE/OWASP/CWE, Nmap/Naabu, Burp, Nuclei, SQLMap, Nikto, Wapiti, Dalfox, AppSec, SIEM Exposure, SOC Workflows, Zero Trust.

Engineering: Docker, Linux, GitHub, CI/CD, Postgres, Redis.

TECHNICAL PROJECTS

HaloX – Custom Scanner: Unified recon/vuln engine with modules for ports, subdomains, tech detection, fuzzing. Documented procedures, optimized flows, and supported AI-driven extensions.

Black Halo – Pentesting Toolkit: Ran multi-tool pipelines, validated findings, authored reports/playbooks, mapped results to MITRE/OWASP/CWE.

LLM Fine-Tuning (LoRA): Fine-tuning LLaMA/Mistral models, dataset prep, tokenization, evaluation.

RAG Pipeline: Vector search, embeddings, chunking, context routing for structured document Q/A.

PROFESSIONAL EXPERIENCE

Pentesting Analyst — HaloAI Security (2024–Present)

• Executed recon & vuln assessments with Nmap/Naabu, Nuclei, SQLMap, Nikto, Wapiti, Dalfox.

• Validated results, filtered noise, performed MITRE/OWASP/CWE-aligned risk assessments.

• Authored playbooks, evidence-collection workflows, and security reporting templates.

• Evaluated container security, dependencies, CI/CD, and cloud configuration baselines.

Project Engineer / Junior Estimator — Mehrer Drywall (2024–Present)

• Managed RFIs, submittals, change orders, scheduling, cost tracking.

• Created SOPs applicable to audit, policy, and security documentation.

Foreman — Mehrer Drywall (2016–2024)

• Led field operations, ensured safety/compliance, incident prevention, and QA/QC.

Project Coordinator / Lead Trainer — UBC (2021–2024)

• Delivered technical training, compliance oversight, process documentation.

EDUCATION

M.S. Artificial Intelligence & Machine Learning — In Progress

B.S. Cybersecurity — Bellevue University, 2024

Certificate, Workforce Education — Penn State, 2024

A.A.S. Multi-Occupational Trades — Renton Technical College, 2021

Apprenticeship, Carpentry — UBC Carpenters Training Center, 2018

CERTIFICATIONS

OSHA 500/510 • Procore Trainer • Green Building Trainer • Scaffold Erector

TOOLS

Burp, Metasploit, Nmap/Naabu, Nuclei, SQLMap, Nikto, Dalfox, Wapiti, httpx, PyTorch, HuggingFace, Jupyter, FAISS, Chroma, Docker, Redis, Postgres, Linux.