

LAITH ASSAF

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PROFESSIONAL SUMMARY

Computer Science student specializing in AI/ML with production experience in PyTorch, TensorFlow, and full-stack development. Led technical teams delivering AI platforms and computer vision models, seeking AI/ML engineering roles.

TECHNICAL SKILLS

Programming Languages: Python, C++, SQL | **AI/ML Frameworks:** PyTorch, TensorFlow, OpenAI API, OpenCV, Ollama

Web Technologies: FastAPI, React, REST APIs, Firebase, Supabase, Streamlit | **Tools & Infrastructure:** Git, Linux, SSH, Docker

EXPERIENCE

IT and Media Services Support Associate

May 2023 - Present

MSU College of Osteopathic Medicine

East Lansing, MI

- Managed 100+ **classroom configurations** across 4 Michigan locations supporting 1,200+ medical students, processing 50-70 **technical tickets** weekly with 5-10 minute average **response time**
- Achieved 99.5% class uptime through rapid resolution of **connectivity**, **display**, **audio**, and **Zoom/Polycom** issues using systematic troubleshooting: variable isolation and root cause elimination

Technical Support Associate

July 2023 - September 2023

Great Lakes Technology Services

Southeast, MI

- Completed 15+ major technical implementations across 12 dental offices in Southeast Michigan, including **Ubiquiti router** upgrades and **server migrations** with 100% project success rate

PROJECTS

Nexus - AI Server Management System | *FastAPI, GPT Models, SSH, AsyncIO*

September 2024

- Developed real-time **SSH terminal** platform using **FastAPI**, **WebSockets**, and **AsyncSSH** achieving sub-10ms response time for remote server management, deployed on personal infrastructure to manage live production server with **asynchronous** command execution and real-time output streaming

SoundSense - Real-Time Audio Classification | *Python, YAMNet, MemryX, Flask, WebSocket*

October 2024

- Built real-time **audio classification** system using Google's **YAMNet model** on **MemryX MXA hardware accelerators**, achieving **95% accuracy** with <50ms **latency** across 521 audio event classes. Won 2nd place in MemryX sponsored track at MHacks 24-hour hackathon (University of Michigan)

MSU Racing Club Website | *Supabase, JavaScript, HTML/CSS*

November 2024

- Built full-stack website for MSU Racing Club using **Supabase** for **authentication**, **PostgreSQL database**, and **file storage**, implementing secure user login, image upload capability, and dynamic club information display for 100+ active members

LEADERSHIP

AI Club Workshop Coordinator

March 2024 - Present

Michigan State University

East Lansing, MI

- Designed and delivered 8+ technical workshops on topics including **local LLMs**, **AI ethics**, and other **AI/ML concepts** to 500+ total attendees across all sessions, maintaining 90% attendance rate and 4.8/5 satisfaction score

AI Club Project Lead

January 2024 - Present

Michigan State University

East Lansing, MI

- Led 4-student team creating **Academic Performance Predictor** using **machine learning** to forecast student grades with 80% accuracy, establishing **agile** processes, delivering within 4-month timeline

EDUCATION

Michigan State University, College of Engineering

East Lansing, MI

BS Computer Science, Major GPA: 3.37 | Specialization: AI/ML | Dean's List

August 2022 - May 2027