# William Koran

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## SUMMARY

Rising senior in Computer Science and Engineering specializing in Artificial Intelligence with a Mathematics minor (GPA 3.73). Experienced in deep learning, computer vision, and full stack development through research, academic, and personal projects. Seeking entry level machine learning roles.

## EDUCATION

**The Ohio State University** — Columbus, OH

B.S. Computer Science & Engineering, Specialization in AI; Minor in Mathematics — *Aug. 2022 – May 2026 (expected)*

- Participated in the Fundamentals of Engineering II project showcase, presenting final design to industry professionals.
- Active member of the OSU Artificial Intelligence Club, contributing to computer vision projects.

## RESEARCH EXPERIENCE

**Ohio State Imageomics Research Institute** — Columbus, OH

Student Research Assistant — *Sept. 2025 – Present*

- Preparing a research project submission for the 2026 Conference on Computer Vision and Pattern Recognition, CVPR.
- Designing and implementing deep learning pipelines for large scale visual recognition tasks.
- Collecting, cleaning, and labeling large scale datasets to improve reliability and training accuracy.

## SELECTED PROJECTS

**MRI Brain Tumor Segmentation** — *Aug. 2025 – Sept. 2025*

- Implemented U-Net in PyTorch to segment tumors on MRI brain scans.
- Experimented with multiple architectures and training strategies before finalizing model with a dice score of 0.87.
- Strengthened knowledge of computer vision best practices and medical imaging applications.

**Retro Zelda Game (C#)** — *Aug. 2024 – Dec. 2024*

- Collaborated on a semester-long group project recreating core features of the original Zelda game.
- Applied object-oriented programming principles and Agile methodologies.
- Contributed over 12,000 lines of code, more than half of the code base.

**YouTube Clone (Next.js/React)** — *June 2024 – July 2024*

- Developed a full stack video sharing application replicating YouTube functionality.
- Deployed a private video processing service on Google Cloud Run integrated with Cloud Storage.
- Implemented Firebase Authentication and Functions for secure user access and video retrieval.

## WORK EXPERIENCE

**Koran Landscaping and Irrigation Services, Inc.** — Northport, NY

Landscape Design Intern / Irrigation Technician — *June 2020 – Aug. 2025*

- Assisted in drafting detailed site and planting layouts using AutoCAD; independently designed smaller projects.
- Repaired and installed irrigation systems, troubleshooting electrical and mechanical components.
- Collaborated in a six-person team to complete large-scale residential and commercial jobs.

## SKILLS

**Languages:** Python, C, C#, Java, SQL, MATLAB
**Frameworks/Tools:** PyTorch, TensorFlow, React.js, Node.js, Docker, Git, Linux
**Core Competencies:** Computer Vision, Machine Learning, Object-Oriented Programming, Problem Solving, Collaboration, Leadership
**Interests:** Brazilian Jiu Jitsu, Powerlifting, Pi Lambda Phi fraternity