

# Noel Dunning

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## **SUMMARY**

I am a recent graduate of the University of Illinois – Urbana-Champaign (May 2025) where I earned my B.S. in Computer Science and Animal Sciences (GPA: 3.3). All four years of my undergraduate studies, I worked as an undergraduate researcher in Dr. Isabella Condotta's Lab for the Precision Management of Animals, where I learned to apply computer vision and machine learning (ML) to agriculture, livestock, and conservation. I am now seeking full-time positions to further develop my skills in software development and ML with applications in agriculture, conservation, and sustainability.

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## **EDUCATION** – BS in Computer Science + Animal Sciences, University of Illinois – Urbana Champaign

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## **EXPERIENCE**

### **PetSmart, Animal Trainer** (Fall 2025 - Present)

Created and managed a training class schedule. Directed training classes with up to 5 participants and their animals. Promoted classes in-store to prospective clients. Provided pertinent animal care and behavior advice to clients.

### **I-DigitAL Research Lab, Undergraduate Researcher** (Spring 2021 - May 2025)

I-DigitAL is an Animal Science research lab led by [Dr. Isabella Condotta](#). It focuses on using computer vision and machine learning to improve efficiency and animal welfare in livestock production.

- Collected video data at livestock farms for use in object detection and classification
- Used OpenCV, PyTorch, TensorFlow, YOLO, in Python to train computer vision ML models
- Presented in UIUC undergraduate research symposiums (2022, 2023, 2024, 2025)

Utilized Skills: PyTorch, TensorFlow, OpenCV, YOLO, Machine Learning, Python, Data Collection, Animal Handling, Academic Writing, Data Management, Public Speaking, Communication Skills

### **Mathnasium, Math tutor** (Fall 2020 - Fall 2021)

Taught K-12 Math concepts. Managed teaching different material to 3-5 students at once. Assessed and reported student progress. Interacted with clients professionally.

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## **PROJECTS**

**Adaptive Facial Recognition for Swine** – Development of a novel ML model to distinguish individual pigs from birth to finishing (6mo). Used OpenCV and YOLO in python for local model development.

**Automated River Fish Survey via Computer Vision** – Development of a novel ML model to detect when fish pass through dam passes and classify their species to survey rivers and detect invasive species

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## **RELEVANT COURSEWORK**

**CS225, Data Structures** – Implementation of data structures, application of algorithms, C++

**CS374, Intro to Algs & Models of Comp** – Design and analysis of algorithms, graph algorithms

**CHEM576, Computational Chemical Biology** – Use of new computational biological tools e.g. AlphaFold3

**ANSC499, Technology and Management** – ML in agricultural applications, PMA systems, CV models