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.

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

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, CUDA, cuDNN, Animal Handling, Academic Writing, Data Management, Public Speaking

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.

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

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