

James Daniels

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OBJECTIVE:

Aspiring to secure a dynamic position that leverages academic foundation and technical proficiency. Experience in machine learning, implementing customized object detection models using YOLO. Specialized in evaluating the comparative performance of point cloud registration solutions through rigorous thesis research. Backed by robust skills in communication, critical thinking, and time management. Committed to driving innovation in software solutions and staying attuned to emerging technologies. Currently engaged in developing a project aimed at aggregating online content into a curated feed.

PROFESSIONAL EXPERIENCE

Ohio University, Athens, Ohio

January 2021 – December 2023

Teaching Assistant

- Administered weekly recitation sessions in Discrete Mathematics for Computer Science with classes of 30 students. Created content to complement lectures, graded exams and established best practice.
- Facilitated discussion of concepts and their application to various areas of computer science. Explored topics including set theory, discrete probability and algorithm run time analysis.

Avionics Engineering Center - Ohio University, Athens, Ohio

May – December 2022

Research Assistant

- Conducted airport runway surface inspection using a multi-spectral sensor system mounted to a drone. Completed georeferencing LiDAR and camera data for use in downstream tasks.
- Trained an object detection model using a convolutional neural network to automatically detect and label debris on runway surface.
- Presented research to the Federal Aviation Administration (FAA) as part of the Joint University Program's annual conference held at the W. J. Hughes Technical Center, Egg Harbor, New Jersey.

Hargreaves Lansdown, Bristol, England

June 2017 – June 2018

Equity Dealer

- Brokered trades in equities, corporate bonds, and trusts on markets in Europe and North America.
- Developed pricing tool for executing trades from personal to tax efficient accounts, ensuring speed and accuracy in time sensitive conditions.

TECHNICAL SKILLS

Languages: Python, C/C++, MATLAB, JavaScript, HTML, CSS.

Tools: AWS, Git, Open3D, OpenCV, PCL, React, MongoDB, Keras, PyTorch, TensorFlow.

EDUCATION

Ohio University, Master of Science in Computer Science

August 2020 – December 2023

University of Bath, England, Bachelor of Science in Economics

September 2015 – May 2019