Stephen Lamczyk

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SUMMARY

Self-motivated and diligent computer engineering student seeking to leverage natural leadership skills, proficiency in machine learning/computer vision, practical working knowledge of computer systems, and an analytical mindset into a job or internship in the computer engineering/science industry.

EDUCATION

OLD DOMINION UNIVERSITY | B.S. COMPUTER ENGINEERING | GRADUATION MAY 2022 | 4.00 GPA

- Specialization: **Data Analytics Engineering (Machine Learning, Artificial Intelligence, and Computer Vision)**
- Specialization: **Computer Hardware**
- Minor: **Computer Science**
- Recipient of the ODU Presidential Scholarship, Newport News Ship Building Scholarship, Kovner Scholarship, Clarence Lee Ray Scholarship
- Member of the Old Dominion University Honors College and on the Dean's List all semesters enrolled

OLD DOMINION UNIVERSITY | M.S. ELECTRICAL AND COMPUTER ENGINEERING | GRADUATION MAY 2023 | 4.00 GPA

- Specialization: **Machine Learning, Computer Vision, Data Science**

PROFESSIONAL SKILLS

SOFTWARE (Experience in years): VS Code (3), XCode (1), Microsoft Office (10), PSPICE (2), MATLAB (2), AutoCAD Eagle (.25), Windows (10), Unix (2), Git/GitHub (1), Unreal Engine (1), Blender (1), Slurm (2), Labview (.25)
LANGUAGES (Experience in years): English (21), Spanish (7), Python (2), C/C++ (3), VHDL (1), ARM Assembly v6 (1), Bash (2), TensorFlow (2), NumPy (2), OpenCV (2), PyTorch (.5), MATLAB (2), Jupyter Notebooks (2), misc. Python libs, Java (1)

PROJECT EXPERIENCE

UNDERGRADUATE RESEARCH ASSISTANT | ODU COMPUTER VISION LAB | MAY 2020-PRESENT

FLOODING PROJECT | FUNDED BY THE NATIONAL SCIENCE FOUNDATION | NOVEMBER 2020-PRESENT

- Used Unreal Engine, Blender, and Blender's fluid simulation framework, Mantaflow, to create extremely realistic synthetic images and videos of flooding for training data of a semantic segmentation model.
- Using various methods to scrap images of flooding from the internet as well as preexisting datasets.
- Iterating upon a developed semantic segmentation model with TensorFlow and PyTorch to accurately and efficiently detect flood water in low resolution and low-quality pictures and videos gathered from traffic cameras.
- Working on developing a GAN to generate synthetic images of flooding for training a flooding depth estimation model.
- Using the ODU Wahab HPC to train and evaluate these models.

TRUST PROJECT | FUNDED BY OFFICE OF NAVAL RESEARCH | MAY 2020-AUGUST 2020

- Worked with a convolutional neural network trained through reinforcement learning to recognize and classify images of naval warships based on class and gave an estimated trust or risk output for each image.
- Ported over the formerly MATLAB-based deep learning ship image classification system to Python using **TensorFlow.**
- Maintained preexisting optical character recognition system to work with updated Python libraries.
- Presented an abstract based on this work at the **Naval Applications of Machine Learning Conference**.
- https://www.underline.io/lecture/14585-computational-modeling-of-trust-factors-in-recognition-of-warfighting-ships

Relevant Courses

- Introduction to Data Science (CS 620), Introduction to Computer Vision (ECE 545), Machine Learning I (ECE 607)

COMMUNITY ENGAGEMENT

- ARMED FORCES COMMUNICATIONS & ELECTRONICS ASSOCIATION (AFCEA) | ODU CHAPTER
- ENGINEERING AMBASSADORS | ODU CHAPTER
- CHESAPEAKE CITY ANNUAL RECYCLING DRIVE| CHESAPEAKE CITY, VA

WORK EXPERIENCE

DEVICE REPAIR TECHNICIAN/SALES ASSOCIATE | BATTERIES PLUS BULBS | MAY 2019 – JANUARY 2020

- Responsible for doing device repairs varying from screen replacement to battery swaps.