

Joseph DiNiso

Objective: Obtain an internship for the Summer of 2021

9 Kenmore Road
Garden City, NY 11530
(516) 507-0033
josephdiniso@vt.edu
josephdiniso.github.io

EDUCATION

Virginia Tech, Blacksburg, VA — *B.S. in Computer Engineering*

Graduating May 2022

- Cumulative GPA of **3.82**
- Pursuing a focus in machine learning with a secondary focus in networking and cybersecurity

EXPERIENCE

Progeny Systems, Manassas, VA — *Machine Learning Engineering Intern*

May 2020 - August

- Worked in the Intelligent Systems Group to build and improve a person re-identification machine learning model.
- Created a pipeline to collect images to be used for training data.
- Worked with various clustering algorithms to improve the effectiveness of the unsupervised person re-identification.
- Developed in Python and used OpenCV, PyTorch, Docker, Linux, Protobuf extensively

Virginia Tech, Blacksburg, VA — *Federated Learning Undergraduate Researcher*

September 2019 - December 2019

- Assisted research at Virginia Tech to test the impact of different network variables on a Federated Learning system
- Built a socket server to communicate with multiple clients in training a machine learning algorithm with TensorFlow Federated Learning

PROJECTS

PyTetris — Programming Project

- Coded Tetris from scratch in Python using the PyGame library

SKILLS

Proficient:

Python - OpenCV, Tensorflow, PyTorch, NumPy

Linux - Ubuntu, Bash

MATLAB, Quartus, Google AdWords

Familiar:

Docker, Protobuf, Javascript, HTML, CSS, Java, Soldering, Circuit design

Conversational proficiency in Spanish

RELEVANT COURSEWORK

Data Structures & Algorithms
Computer Organization & Architecture

Intro to Discrete Math
Linear Algebra

Probability & Statistics

Signals & Systems

Embedded Systems

Fundamentals of Digital Systems

Computational Engineering

Physical Electronics

Circuits & Devices

AWARDS

Dean's List with Distinction -
Maintain a GPA of 3.75 or higher

George Family Scholarship