

Joseph DiNiso

Objective: Obtain an internship with a focus in machine learning or computer vision for the Summer of 2021

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EDUCATION

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

Graduating May 2022

- Cumulative GPA: **3.82**, In Major GPA: **3.71**
- Pursuing a focus in machine learning with a secondary focus in networking and cybersecurity

EXPERIENCE

Virginia Tech, Blacksburg, VA — Undergraduate Learning Assistant, Embedded Systems (ECE 2564)

August 2020 - Present

- Assisted students during office hours and helped with student's in-class programming projects using C

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

May 2020 - August

- Worked in the Intelligent Systems Group to build and improve a person and vehicle reidentification model using the CenterNet detection network
- Worked with various clustering algorithms to improve the effectiveness of the unsupervised person re-identification process
- Developed in Python and used OpenCV, PyTorch, Docker, and Ubuntu 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

SKILLS

Proficient:

Python - OpenCV, Tensorflow, PyTorch, NumPy
Linux - Ubuntu, Bash scripting, Git

Intermediate:

C, C++, Protobuf, MATLAB
Conversational proficiency in Spanish

Familiar:

Go, Docker, Javascript, HTML, CSS, Circuit design, Google AdWords

RELEVANT COURSEWORK

Data Structures & Algorithms
Computer Org. & Architecture
Intro to Discrete Math
Signals & Systems
Embedded Systems

IN-CLASS PROJECTS

Tamagotchi - Programmed a Tamagotchi in C using an MSP432 Microcontroller

Smart Home - Created a smart home device with an Arduino

PERSONAL PROJECTS

Socket Chat Room - Created a chat room and UI using TCP socket communication in Python

PyTetris - Programmed Tetris from scratch in Python using the PyGame library.

SERVICE, AWARDS, ORGANIZATIONS

Montgomery County Animal Shelter - Volunteer

Dean's List with Distinction

Sigma Phi Delta - Professional Chair of the engineering fraternity