

Joseph DiNiso

Objective: Obtain a full time software engineering position after graduation in May 2022

Github: <https://github.com/josephdiniso>

Location: New York // Virginia

Willing to relocate

(516) 507-0033

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EDUCATION

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

Graduating May 2022

- Cumulative GPA: **3.85**, In Major GPA: **3.82**
- Pursuing a focus in machine learning with a secondary focus in software systems and minors in mathematics and cybersecurity

EXPERIENCE

Garmin International, Cary, NC — Software Engineering Intern

May - August 2021

- Worked for the Automotive OEM team as a software engineer on camera software developed for BMW infotainment systems.
- Implemented performance metric features as well as other developer tools for the camera software to assist in software development and performance analysis.
- Assisted in maintaining the fisheye dewarping software developed for the camera.

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

August 2020 - Present

- Hold office hours for students and help them with C programming.
- Work with a TI-MSP432 to design programming projects for students.

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

May 2020 - August 2020

- 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 with image feature data to improve the effectiveness of an unsupervised person re-identification process.
- Developed in Python and used OpenCV, PyTorch, Docker, and Ubuntu extensively.

SKILLS

Proficient:

Python - OpenCV, Tensorflow, PyTorch, NumPy
C++
Linux - Ubuntu, Bash scripting, Git
Computer vision, data science, machine learning

Intermediate:

C, MATLAB, Conversational Spanish

Familiar:

Docker, Javascript, HTML, CSS

RELEVANT COURSEWORK

Data Structures & Algorithms
Applied Software Design
AI & Engineering Applications
Digital Image Processing
Intro to Computer Vision
Machine Learning

SERVICE, AWARDS, ORGANIZATIONS

Sigma Phi Delta - President of the engineering fraternity
Dean's List with Distinction - 3 consecutive years

IN-CLASS PROJECTS

QR Detection - Created a QR detection system similar to Spotify's to work with YouTube embedded URLs

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.