

Joseph DiNiso

✉ josephdiniso@gmail.com



☎ (516) 507-0033



📍 Seattle, WA. Willing to Relocate



WORK EXPERIENCE

Microsoft, Redmond, WA—Software Engineer I

August 2022 - Present

- Currently working in Azure Compute as a software engineer.
- Work on developing Azure Core using a wide variety of tools including **C++**, **C#**, and **Rust**.

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.
- Assisted in maintaining the fisheye dewarping software developed for the camera.
- Implemented performance profiling features and other developer tools to assist in debugging and improving the performance of the camera dewarping code.
- Worked primarily with **C++** and **Python** on a **Linux** host machine.

Progeny Systems, Manassas, VA— Machine Learning Engineering Intern

May - 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 clustering algorithms to improve the effectiveness of an unsupervised person re-identification process.
- Compiled and organized large datasets to be used in the training of **convolutional neural networks**.
- Developed in **Python** and used **OpenCV**, **PyTorch**, **Docker**, and **Ubuntu** extensively.

EDUCATION

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

Graduated May 2022

- Cumulative GPA: **3.85**, In Major GPA: **3.85**
- Pursuing a primary focus in machine learning, and a secondary focus in networking & cybersecurity.

INDUSTRY SKILLS

Proficient:

Python: OpenCV, PyTorch, NumPy

C++, C#

Linux: Ubuntu, Bash scripting

Familiar:

C, C#, Rust

Web Dev: HTML, CSS, ReactJS

RELEVANT COURSEWORK

AI & Engineering Applications

Digital Image Processing

Intro to Computer Vision

Machine Learning

Data Structures & Algorithms

AWARDS & ORGANIZATIONS

Sigma Phi Delta Engineering

Fraternity - President,
Professional Chair

Dean's List with Distinction - 4
consecutive years

RELEVANT PROJECTS

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

Virtual Drum Simulator - Used
applied computer vision
techniques to create an augmented
reality drum simulator

Maze Solver - Solves any given
maze using a backtracking
algorithm written in C++

Personal Website - Created a
resume website using HTML and
CSS

PyTetris - Programmed Tetris in
Python using the PyGame library.