# **Cameron Dugan**

(603)-703-4018 | duganc@wit.edu | Boston, MA | github.com/camerondugan

#### **EDUCATION**

### Wentworth Institute of Technology (WIT) | Boston, MA

August 2024

- Bachelor of Science in Computer Science
- Major GPA 3.5/4.0, Overall GPA 3.4/4.0
- Dean's List Fall Semester 2021
- Related Courses: Machine Learning, Architecture and Al, Algorithms, Intro to Data Science

#### **EXPERIENCE**

### Al Development Intern at Island Exterior Fabricators in Boston, MA Sep 2023 - Dec 2023

- Developed multiple neural networks to adjust label positions in manufacturing drawings
- Automated improved clarity and accuracy of essential manufacturing drawings.

#### AI Research Assistant at WIT in Boston, MA

Jun 2023 - Sep 2023

- Developed a novel neural network training loop for adversarial Al purposes
- Automated 3D rendering essential for training the model

## Al Research Assistant at WIT & Amazon in Boston, MA

Jan 2023 - Apr 2023

- Provided insights that benefited the creation of the Amazon Echo Show 10.
- Developed Python automation and visualizations for AI model fine-tuning
- Modified site-packages to setup a Raspberry Pi 4 to run our TensorFlow model

# ABAP Intern at Charles River Labs in Remote Wilmington MA

Jun 2022 - Aug 2022

- Learned and practiced SAP + ABAP Development Methodologies
- Automated email tasks in Microsoft Power Automate

## **PROJECTS**

## Chess Engine in C# (Individual) | gitlab.com/cameron.dugan/chess-challenge

- Implemented a relatively strong chess engine in <150 lines of code
- Used Hamming Weights for bit counting on a bit representation of a chess board.

## **Genetic A.I. in Rust** (Individual) | gitlab.com/cameron.dugan/genetic-algorithm-in-rust

- Created a simple and clean parallel genetic algorithm in Rust using the standard libraries

### AutoDrop Project in Python (Group) | github.com/camerondugan/AutoDrop

- Developed multi-threaded peer to peer client for automatic file transfer
- Created a folder structure for incoming files by client to avoid overwriting same named files
- Programmed multi-threaded local network peer discovery

# Succulent Multi-platform App in Flutter (Individual) | Google Play Store

- Incorporated a dynamic and smooth card-like interface with Flutter
- Designed plain-text back-end for quick save state editing

#### SKILLS

**Favorite Software Tools:** Linux, NixOS, Docker, ssh, tmux, nvim, fzf, zoxide **Programming Languages:** Go, Python, C++/C, Java, Rust, Lua, Dart, Assembly, R

Front End Platforms: VR Software in Godot, Desktop & Mobile in Flutter, Desktop GTK4 in Rust

#### **ACTIVITIES**

### Participant of VR Jam at Wentworth VR Event

July 2023

- Adapted a game I made to run in VR using movement mechanics from Gorilla Tag

#### **Student Presenter at AAAI Conference**

February 2022

- Presented research on Al's potential impact on Agriculture in Africa

### **Competitor for MIT Battle Code**

Every January in 2020-2024

- Led a team to solve problems such as low resource path-finding and message communication
- Finished 13th in Finals of 2020 and 18th US Qualifying of 2022

### Eagle Scout of Troop 272 from the Boy Scouts of America

August 2020

- Held leadership roles and developed skills for working with and leading teams of young adults
- Led and funded a project to build 4 picnic tables for Sargent Park in Nashua NH