

# Cameron Dugan

(603)703-4018 | [duganc@wit.edu](mailto:duganc@wit.edu) | Boston, MA | [gitlab.com/cameron.dugan](https://gitlab.com/cameron.dugan) | [github.com/dugancatwit](https://github.com/dugancatwit)

## EDUCATION

### Wentworth Institute of Technology | Boston, MA

Expected: August 2024

Bachelor of Science in Computer Science

Overall GPA 3.2/4.0, Major GPA 3.5/4.0

Dean's List Fall Semester 2021

*Related Courses:* Architecture and AI, Algorithms, Data Structures, Computer Organization

## SKILLS

**Programming Languages:** Java, Python, Dart, Lua, Rust, C++, C, Assembly, MATLAB, R

**Front End:** Flutter with Dart, GTK4 with Rust, Oculus Quest VR App with Godot

**Software:** Visual Studio, Vim, Doom Emacs, Eclipse, R Studio, MySQL, VirtualBox, Office

**Operating Systems:** Linux, Windows 8-10, Android 8-12

**Hardware:** Arduino, Raspberry Pi

## PROJECTS

### AutoDrop | Python (Group) | [github.com/dugancatwit/AutoDrop](https://github.com/dugancatwit/AutoDrop)

December 2021

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

### Succulent Multi-platform App | Flutter/Dart (Individual) | [Google Play Store](https://play.google.com/store/apps/details?id=com.dugan.succulent)

December 2021

- Designed plain-text back-end to allow cheating if someone wanted
- Included a dynamic and smooth card-like interface with flutter widgets

### Abstract Art Generator | Python (Individual) | [camerondugan.com/blog/dream-bot](https://camerondugan.com/blog/dream-bot)

August 2021

- Imported original image to fill with transparent pixels for regeneration
- Generate tangent pixel probabilities for a given color using the original image
- Wrote code to fill empty pixel given surrounding pixel based on stored probabilities

### Website with Liquid HTML | Jekyll (Individual) | [camerondugan.com](https://camerondugan.com)

March 2021

- Designed for the purpose of publicly logging personal misadventures in computer science
- Chose to use Jekyll and Simple.css due to small output size and easy management
- Hosted on a personal Raspberry Pi 4 with other services to reduce hosting cost

## EXPERIENCE

### Wentworth Institute of Technology Success Studio | Boston, MA

January 2022 - Present

*Embedded Tutor/Peer Tutor*

- Guided over 20 students through Computer Science I and II, as well as algorithm problems
- Joined Computer Science II labs to help with in-class assignments
- Direct help sessions for Computer Science I and II

### Patrick's Pub | Gilford NH

June 2021 - August 2021

*Dishwasher*

- Washed incoming dishes and cooking-ware to ensure the kitchen remained operational

## ACTIVITIES

### AAAI Conference | Artificial Intelligence Conference

February 2022

*Student Presenter*

- Researched AI's potential impact on Agriculture in Africa

### MIT Battle Code | Java Programming Competition

January 2020, 2021, and 2022

*Team Leader*

- Led a team to solve problems such as agent path-finding and shared-array inter-agent communication
- Finished 13th in Finals of 2020 and 18th US Qualifying of 2022

### Boy Scouts of America | Troop 272

August 2020

*Eagle Scout*

- 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