# Cameron Dugan

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## EDUCATION

**Wentworth Institute of Technology (WIT) | Boston, MA** August 2024
Bachelor of Science in Computer Science
Major GPA 3.5/4.0, Overall GPA 3.3/4.0
Dean's List Fall Semester 2021
*Related Courses: Machine Learning,* Architecture and AI, Algorithms, Intro to Data Science

## EXPERIENCE

**AI Research Assistant | WIT | Hybrid Boston, MA** June 2023 - Present
- Developed a neural network training loop for adversarial AI purposes
- Automated 3D rendering essential for model training

**AI Research Assistant | WIT & Amazon | Hybrid Boston, MA** January 2023 - April 2023
- Developed Python automations and visualizations for AI model finetuning
- Modified site-packages to setup a Raspberry Pi 4 to run our TensorFlow model
- Orchestrated file synchronization for final AI finetuning tech demo

**ABAP Intern | Charles River Labs | Remote Wilmington MA** June 2022 - August 2022
- Learned and practiced SAP + ABAP Development Methodologies
- Automated email tasks in Microsoft Power Automate

**Embedded Tutor/Peer Tutor | WIT Success Studio | Boston, MA** January 2022 – May 2022
- Guided over 20 students through Computer Science I, II, and algorithm concepts
- Joined Computer Science II labs to help with in-class assignments
- Directed help sessions for Computer Science I and II

## PROJECTS

**Genetic AI Algo | Rust (Individual) |** https://gitlab.com/cameron.dugan/genetic-algorithm-in-rust
- Created a simple and clean parallel genetic algorithm in Rust using standard libraries

**Succulent Multi-platform App | Flutter/Dart (Individual) |** Google Play Store
- Designed plain-text back-end for quick save state editing
- Included a dynamic and smooth card-like interface with Flutter

**AutoDrop Project | Python (Group**) | github.com/camerondugan/AutoDrop
- Developed multi-threaded peer to peer client code 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

**Abstract Art Generator | Python (Individual) |** camerondugan.com/blog/dream-bot
- Created an image in-painter with basic tangent pixel statistics from a memorized data-set
- Generates tangent pixel probabilities for any given color in an image or set of images
- Wrote code to fill empty pixel given surrounding pixel based on stored probabilities

## SKILLS

**Programming Languages:** Python, C++/C, Java, Rust, Lua, R, Dart, Assembly
**Front End Platforms:** VR Software in Godot, Desktop & Mobile in Flutter, Desktop GTK4 in Rust

## ACTIVITIES

**AAAI Conference | Artificial Intelligence Conference | Student Presenter** February 2022
- Researched AI's potential impact on Agriculture in Africa

**MIT Battle Code | Programming Competition | Competitor** January in 2020, 2021, 2022, 2023
- Led a team to solve problems such as path-finding and multi-threaded map discovery & communication
- Finished 13th in Finals of 2020 and 18th US Qualifying of 2022

**Boy Scouts of America | Troop 272 | Eagle Scout** 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