



Cameron Dugan
github.com/camerondugan

SKILLS

Favorite Tools: Nix, Docker, SSH, Git, Pyright, FZF

Programming Languages: Go, Python, Rust, Java, C++/C, Dart, Lua, Assembly, R

EXPERIENCE

AI 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 AI purposes
- Automated 3D rendering essential for training the model

AI 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

NabGo in Go, Python, and JS (Group) | <https://github.com/camerondugan/NabGo>

- Designed and implemented NabGo, an online analysis platform for the popular board game Go.
- Developed an board image upload feature that allows for easier analysis of Go positions.

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

Succulent Multi-platform App in Flutter (Individual) | [Google Play: Search \(camerondugan\)](https://play.google.com/store/apps/details?id=com.camerondugan.succulent)

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

ACTIVITIES

Award Winner of VR Jam at Wentworth VR Event July 2023

- Adapted a game I made to run in VR using movement mechanics from popular VR titles

1st Place at WIT Game Jam | <https://sire-inc.itch.io/you-are-not-a-clone> July 2023

- Developed award winning 2D Platformer "You are not a clone" in a team environment

Competitor for MIT Battle Code | <https://battlecode.org> January in 2020-2024

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

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

EDUCATION

Wentworth Institute of Technology (WIT) | Boston, MA August 2024

- Bachelor of Science in Computer Science
- Major GPA 3.6/4.0, Overall GPA 3.47/4.0
- SCDS Academic Excellence Award Winner 2024
- Dean's List Fall 2021, Fall 2022, and Spring 2024