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 3.4/4.0
- Dean's List Fall Semester 2021
- Related Courses: Machine Learning, Architecture and AI, Algorithms, Intro to Data Science

SKILLS

Favorite Tools: Nix, Docker, SSH, nvim, tmux, fzf, zoxide, SyncThing
Programming Languages: Go, Python, Rust, Java, C++/C, Dart, Lua, Assembly, R
Front End Platforms: Flutter, GTK4 via Rust, VR via Godot

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

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

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 AI'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