Cameron Dugan

github.com/camerondugan

SKILLS

Favorite Tools: Nix, Docker, SSH, NeoVim, TMUX, FZF, Zoxide, SyncThing
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

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

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