Cameron Dugan

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EXPERIENCE

ML Development Intern at Island Exterior Fabricators in Boston, MA Sep 2023 – Dec 2023
- Automated improved clarity and accuracy of essential manufacturing drawings
- Mitigated potential errors and confusion during assembly process
- Developed neural networks to adjust label positions in manufacturing drawings

AI Research Assistant at WIT in Boston, MA Jan 2023 - Sep 2023
- Provided research for the implementation of auto framing in Amazon's Echo Show 10
- Indirectly contributed to multiple masters thesis defenses
- Automated processes and visualizations for AI model fine-tuning
- Developed a novel neural network training loop for spatial adversarial AI purposes
- Modified site-packages to setup a Raspberry Pi 4 to run our TensorFlow model

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

EDUCATION

Wentworth Institute of Technology (WIT) | Boston, MA Sep 2020 - Aug 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

PROJECTS

NabGo in Go, Python, and JS | https://github.com/camerondugan/NabGo
- Designed and implemented NabGo, an online position analysis platform for Go
- Developed an board image upload feature that allows for easier use on complicated Go positions

Genetic Algorithm in Rust | gitlab.com/cameron.dugan/genetic-algorithm-in-rust
- Created a simple and clean parallel genetic algorithm in Rust using the standard libraries

Practice Guitar Tabs in Python
- Integrated many separately developed features to work together
- Used Fast Fourier Transforms(FFT) to analyze frequencies in note detection module

Chess Engine in C# | 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

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 an experience I made to run in VR using unique movement mechanics

1st Place at WIT Game Jam | https://sire-inc.itch.io/you-are-not-a-clone July 2023
- Developed an award winning 2D Platformer "You are not a clone" in a team environment

Competitor for MIT Battle Code | https://battlecode.org Jan 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

SKILLS

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