Darren Lim

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<u>dartren01.github.io/</u> • <u>linkedin.com/in/darrenjlim</u> • <u>burger0l0.itch.io</u>

Skills

Languages: Python, C#, Java, C++

Technologies: Microsoft Visual Studio, Unity 3D, Vim, Git, Github, Eclipse, Jupyter Notebook, PyCharm, Powershell,

Trello, Slack

Developed Applications

Search Engine Feb 2020 - Mar 2020

Programmer - Simple Search Engine - https://github.com/dartren01/SearchEngine

- Reduced search speed to under 300 milliseconds by implementing multithreading when searching query words in the index.
- Analyzed corpus documents by tokenizing and stemming words from JSON files using Python.
- Developed an inverted index to store over tens of thousands of web pages for increased search engine efficiency.
- Decreased memory load to under 60% of the size of the index by offloading smaller partitions onto the disk.
- Improved document search precision and accuracy by integrating term frequency inverse document frequency (TF-IDF) and cosine similarity scoring.

Dogs Vs. Cats: Space Edition

Sep 2019 - Mar 2020

Project Lead – 2D Bullet Hell Android Game – https://burger010.itch.io/4pm-game

- Designed core in-game logic and gameplay experience using C# in Unity3D.
- Achieved replay value by implementing a score system and an innovative game mechanic.
- Enhanced software performance by conducting playtests to document accuracy, consistency, and completeness.
- Delegated tasks to each team member to increase production rate and keep up with deadlines.

Allbirds Shop Bot

Jun 2019 - Aug 2019

Project Lead - Shopify Shopping Helper - https://github.com/carminechoi/Allbirds-Shop-Bot

- Interacted with product information from the Allbirds website through requesting, storing, and interpreting **JSON** files using **Python**.
- Increased product collection efficiency by over 50% by using multiprocessing.
- Utilized PyQt5 to create a graphical user interface for easier navigation and to display products.
- Incorporated **Selenium** to automate online product ordering using user-inputted information.

Education

University of California, Irvine

Bachelor of Science: Computer Game Science, March 2020

- GPA: 3.58/4.0
- **Relevant Coursework**: Data Structure Implementation and Analysis, Intermediate Programming in Python, Software Requirements and Analysis

Activities

- Performing music on stage by playing guitar, bass, or drums with a band.
- Hitting small, white balls at a golf range.
- Engaging in online communities through playing competitive video games.