Darren Lim

Software Developer

Cerritos, CA

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linkedin.com/in/darrenjlim
github.com/dartren01
Portfolio: dartren01.github.io

Skills

Languages: Python, C#, Java, SQL

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

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Developed Applications

Sticky Memos   Mar 2020 – May 2020

Solo Development – github.com/dartren01/Sticky-Memos – *Reminders On Your Desktop*
- Built a fully functional Post-It Note program using **Java** and **JSwing** where users can store any form of text.
- Formulated a method to cache several instances so users can add, delete, or view different notes.

Search Engine   Feb 2020 – Mar 2020

Programmer – github.com/dartren01/SearchEngine – *Simple Search Engine*
- Reduced search speed to **under 300 milliseconds** by implementing multithreading and duplication detection.
- Developed an inverted index to **store over tens of thousands** of web pages for higher search engine efficiency.
- Decreased memory load to **under 60%** of the index size by offloading smaller partitions onto the disk.

Dogs Vs. Cats: Space Edition   Sep 2019 – Mar 2020

Project Lead – dartren01.github.io/Dogs-Vs-Cats-Space-Edition – *Bullet Hell Mobile Game*
- Designed **core in-game logic** and gameplay experience using **C#** in **Unity3D**.
- Boosted CPU performance through object pooling to reduce unnecessary garbage collection.
- Enhanced software performance by **conducting playtests** to document consistency.
- Delegated tasks to each team member to increase production rate and keep progress in check.

Allbirds Shop Bot   Jun 2019 – Aug 2019

Project Lead – github.com/dartren01/Allbirds-Shop-Bot – *Shopify Shopping Helper*
- Interacted with product information by 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 easy navigation and product display.
- Incorporated **Selenium** to automate online product ordering using user-inputted information.

Education

University of California, Irvine

Bachelor of Science: Computer Game Science, March 2020
- **Relevant Coursework**: Data Structure Implementation and Analysis, Intermediate Programming in Python, Software Requirements and Analysis

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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.