

Leon Yee Leong Tan

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SKILLS

- **Coding: Proficient:** Python, Java, C, Git, MySQL, HTML5
Exposure: React, CSS, C#, Unity, JavaScript, PHP, R
- **Language:** English, Mandarin, Malay | Hokkien & Cantonese dialect
- **Others:** iMovie, Adobe Photoshop, Reason (digital audio workstation)

EDUCATION

BS in Computer Science & Biology, University of Wisconsin-Madison Expected graduation: Dec 2019
CGPA: 3.51/4.00

- **Coursework:** Operating Systems, Bioinformatics, Algorithms, Databases, Cryptography, Artificial Intelligence, Data Structures, Machine Organization, Computer Engineering

WORK EXPERIENCE

Research Data Analyst | UW Madison | Madison, WI 06/2019 - 09/2019

- Worked under the direction of a professor and analyzed open crime data in city of Madison
- Used **Python** to generate graphs and animate crime data on the map
- Mapped out crime concentrations in Madison and analyzed for patterns

Help Desk Student Developer | UW Madison DoIT | Madison, WI 04/2018 - 09/2018

- Developed, maintained and improved the web applications used by the DoIT Help Desk to improve their workflow and efficiency. Used **JavaScript** and **Git** to complete those tasks
- Debugged and redesigned the scheduling tool. Improved schedule generation time and greatly reduced scheduling mistakes and clashes
- Managed projects with Kanban method using Trello and Slack to ensure that projects are taken and completed in timely and organized manner

Help Desk Quality Assurance | UW Madison DoIT | Madison, WI 11/2017 - 09/2018

- Led, guided and assisted ~10 help desk agents at a time in providing support to their customers and answered any questions that the help desk agents had in troubleshooting the problem

DoIT Representative | UW Madison DoIT | Madison, WI 05/2017 - 09/2017

- Gave public presentations and handled Q&A sessions for audiences of 50 - 100 people to inform and publicize the services and support that DoIT offers

PROJECT WORK

MusicPear | School Project 2019

- A music social media program that allows users to save, manage and share their playlists with other users. Built using **Unity**, **C#**, **PHP** and **MySQL**
- Developed the database system and managed how information is stored and pulled from it
- Built various functionalities for user to manage their library in the program

myShell | School Project 2019

- Built a new shell on top of Linux using **C**. Can either run interactively or take commands from text file
- Capable of running processes either in foreground or background, and handle output redirections

Mini Reversi | School Project 2018

- An AI program built using **Java** that determines the best possible move for a 4x4 Reversi board game
- Constructed game trees and used minimax theorem and alpha-beta pruning to determine the most optimum move for the player

INTERESTS AND HOBBIES

- **Music and movies** – Occasionally produce music and make videos
- **Board Games** – Host board games nights regularly with some board games enthusiasts
- **Travelling** – Solo travel to several states to experience different cultures and meet new people