

# Leon Yee Leong Tan

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**Address:** 548 West Johnson St, Apt 304,  
Madison, WI, 53703

## SKILLS

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

## EDUCATION

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**BS in Computer Science & Biology, University of Wisconsin-Madison**

Graduation Date: Dec 2019

CGPA: 3.48/4.00

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

## WORK EXPERIENCE

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**Research Data Analyst | UW Madison | Madison, WI**

06/2019 - 09/2019

- Analyzed Madison's open crime data to look for patterns in criminal activities to help reduce crime rates
- Visualized crime locations on the map and created graphs to show criminal patterns with **Python**
- Identified locations with higher crime rate and time periods where criminals are more active

**Help Desk Student Developer | UW Madison DoIT | Madison, WI**

04/2018 - 09/2018

- Maintained the web applications used by the DoIT Help Desk with **JavaScript** and **PHP**. Improved the stability and reliability of those online tools
- Debugged and redesigned the scheduling tool. Improved schedule generation time and resolved scheduling mistakes and clashes
- Managed projects with Kanban method using Trello and Slack to ensure that projects are taken and completed in a timely and organized manner

**Help Desk Quality Assurance | UW Madison DoIT | Madison, WI**

11/2017 - 09/2018

- Led, guided and assisted teams of ~10 help desk agents in providing support and troubleshooting customers' problems

**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

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**MusicPear**

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**
- Designed an efficient SQL schema and developed the database system required to hold the data

**Map-Reduce**

2019

- A **C** library that allows a developer to use MapReduce in their program to efficiently process large data-sets
- Uses parallelism/concurrency to run multiple programming tasks together to improve speed and efficiency

**myShell**

2019

- A new shell built 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

**Bill Splitter**

2019

- A **Python** program that can quickly calculate and split bills accurately among people based on each person's distinct purchases. Also takes into account taxes and tips

## INTERESTS AND HOBBIES

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- **Music and movies** – Occasionally produce music and make videos
- **Board Games** – Hosts board games nights regularly with some board games enthusiasts
- **Travelling** – Solo travelled multiple locations to experience different cultures and meet new people