

Leon Yee Leong Tan

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LinkedIn: [linkedin.com/in/leon-yl-tan](https://www.linkedin.com/in/leon-yl-tan) Github: github.com/LeonTan828 Website: leontan828.github.io/personal-website/

EDUCATION

University of Wisconsin-Madison

Graduated: Dec 2019

B.S. in Computer Science and Biology

CGPA: 3.48/4.00

Relevant Coursework: Algorithms, Operating Systems, Cryptography, Artificial Intelligence, Bioinformatics, Databases

SKILLS

- **Proficient:** Java, Python, C, React.js, Bootstrap, CSS, Javascript, HTML5, Git
- **Exposure:** MySQL, C#, Unity, PHP, R
- **Verbal:** English, Mandarin, Malay, Hokkien, Cantonese
- **Tools:** iMovie, Adobe Photoshop, Reason (digital audio workstation)

Project Experience

MusicPear

- A music social media program that allows users to save, manage and share their playlists with other users.
- Technologies used: **Unity, C#, PHP** and **MySQL**
- Designed an efficient SQL schema and developed the database system required to hold the data
- Handled data communication between the Unity app and the database system

Personal Website - <https://leontan828.github.io/personal-website/>

- A personal website built using **React.js** and **CSS** that serves as a platform to introduce myself to everyone
- Used bootstrap front-end framework to design and construct an informative and responsive website

Map-Reduce

- A **C** framework that allows developers to use MapReduce in their program to efficiently process large data-sets
- Uses parallelism to run multiple distributed programming tasks asynchronously to improve speed and efficiency
- Users can use MapReduce on their functions without having to worry about parallelizing their application

myShell

- 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

- 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

Work Experience

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

Junior Developer | UW Madison DoIT | Madison, WI

04/2018 - 09/2018

- Maintained the web applications used by the DoIT Help Desk with **JavaScript** and **PHP**
- Debugged and redesigned the scheduling tool to improve stability and reliability
- 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