

Leon Yee Leong Tan

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EDUCATION

University of Wisconsin - Madison

September 2015 - December 2019

B.S. - Double Major in Computer Science and Biology (Overall GPA: 3.48/4.00)

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

WORK EXPERIENCE

IAM Administrator | UW Madison DoIT | Madison, WI

April 2020 - Present

- Shadowed the team during the redesign process of the IAM systems and contributed to the documentation to help with future onboarding and information access for the team.
- Conducted data analysis on activity logs with **Python** to identify key bottlenecks and improve the password recovery procedure.
- Automated the manual data entry process for COVID time reporting using **Node** script to help keep track of hours while maintaining team efficiency and productivity

Project Coordinator | Academy for Surgical Coaching | Madison, WI

March 2020 - Present

- Automated user actions and spam filtering on Zoho CRM using **Deluge** script and Zoho **REST API** and reduced average time spent on leads verification and outreach by 3 folds.
- Managed ~50 monthly user data on Zoho CRM by designing workflows and best practices for the organization to facilitate outreach and collaborations.

Research Data Analyst | UW Madison | Madison, WI

June 2019 - September 2019

- Progressed research efforts by providing valuable insights and results through processing and analyzing public crime data in Madison using **Python**.
- Identified crime hotspots in Madison by visualizing crime data on the map and animating it using matplotlib

Junior Developer | UW Madison DoIT | Madison, WI

April 2018 - September 2018

- Retained high website availability by performing routine maintenance using **JavaScript**, **PHP** and **GitLab**.
- Refactored a scheduling tool, that supports work hours scheduling, with **JavaScript** and **PHP** to improve the stability and reliability of the tool.

PROJECT EXPERIENCE

Trippee

A full-stack web app for planning group trips among multiple users

- Built a back-end that handles **API** routes, user authentication and data storage with **Node**, **Express** and **MongoDB**.
- Designed and developed front-end components for displaying schedule and trip details with user inputted dynamic data using **React** and **Redux** framework.

MusicPear

A music social media program that allows users to save, manage and share their playlists with other users

- Optimized **MySQL** database and improved query latency by duplicating certain fields in the schemas to reduce expensive join statements.
- Built database connection solution and queries in **Unity** app to facilitate data storage and interaction using **C#** and **PHP**.

Exon-Intron Predictor

A machine learning program that models pre-mRNA structures

- Implemented supervised learning Hidden Markov Model based on unobservable pre-mRNA state sequences with **Python** that contributes to genomic annotation of microorganism species by accurately predicting the exons-intron locations.

Map-Reduce

A MapReduce library on C

- Improved data processing speed by constructing a MapReduce library using **C** to asynchronously run parallelizable programming tasks across large datasets.
- Generalized MapReduce programming model by packaging it into a **C** library to make it easier for users to integrate MapReduce into their program.

SKILLS

- Languages:** Java, Javascript, Python, C, C#, HTML5, CSS, PHP, R, Deluge
- Web:** Node, Express, React, Bootstrap, Laravel
- Tools & Technologies:** Git, SQL, MongoDB, Unity, Bash, Unix