Leon Yee Leong Tan

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WORK EXPERIENCE

Application Software Engineer | Emerald Cloud Lab | South San Francisco, CA (Remote Work)

November 2021 - January 2024

- Develop, test, deploy and maintain various external and internal applications and enable scientists to design and conduct experiments and research on the cloud.
- Collaborated with the design and scientific teams to develop new features using NW.js, Node.js, React, Redux, JavaScript,
 TypeScript, Emotion CSS and Wolfram Mathematica to enhance user experience and improve lab operations.
- Used diagnostic tools such as **Rollbar** and **Honeycomb** to monitor, triage and troubleshoot software related issues to maintain service availability and smooth operation of the lab.
- Handled multiple software releases by incorporating a robust CI/CD pipeline with **Travis CI** and **Kubernetes**, while ensuring high level of quality assurance and effective communication of new features.
- Digitized and developed a comprehensive and intuitive training platform for lab operators, streamlining the training process and reducing onboarding time by 75%, while reducing the workload of training managers.
- Enhanced inventory storage efficiency by developing an interface for the vertical storage system and implemented a robust 'Report Storage Problem' feature, significantly improving storage issues.
- Overhauled the internal application to optimize information display and intuitiveness while improving usability and functionality by redesigning the user interface and integrating innovative features.
- Implemented data mapping to lessen api load and reduced loading time by 90% on a client-facing feature.
- Developed and integrated the autosave feature to significantly reduce the risk of data loss for customers and enhance their user experience.

Software Developer & Project Coordinator | Academy for Surgical Coaching | Madison, WI

March 2020 - October 2021

- Plan, design, develop, test, deploy and maintain internal systems and software to provide infrastructure for coaching services. Provided surgical coaching services to 77 surgeons and ran 10 coach training programs.
- Maintained the **Wordpress** website and **MySQL** database with **PHP**, **HTML**, **CSS** and **Python** and developed a user login system using **Agile** Development Methodology to manage and organize records of user profiles and coaching sessions.

IAM Administrator | UW Madison DoIT | Madison, WI

April 2020 - November 2020

- Conducted data analysis on activity logs with Python to identify key bottlenecks and improve password recovery procedure.
- Automated the manual data entry process for COVID time reporting by writing and testing a Node script to help keep track
 of hours while maintaining team efficiency and productivity.

SKILLS

- Languages: JavaScript, TypeScript, Python, Java, C, C#, HTML5, CSS, PHP, Wolfram Mathematica, R
- Web: Node, NW.js, Express, React, Redux, Bootstrap, Laravel, Wordpress
- Tools & Technologies: Git, Docker, Kubernetes, SQL, MongoDB, Unity, Bash, Unix

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

Trine University
M.S. - Information Studies

January 2023 - Current Current GPA: 3.86/4.00

SOFTWARE 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.

Map-Reduce

A MapReduce library on C

- Improved data processing speed by constructing a MapReduce library using **C** that implements multithreading to asynchronously run 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.