

Mark Toh

SOFTWARE ENGINEER, FULL STACK

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Experience

DataChat

Madison, WI

SOFTWARE ENGINEER, FRONT-END LEAD

Jan 2019 - PRESENT

- Architected a dashboard suite in **React**, **Golang**, and **Python** to create, update, delete, and share live visualizations.
- Constructed a data pipeline for consolidating data from third-party APIs such as Google Analytics, Squarespace, and Active Campaign using DataChat engine and **Python**.
- Engineered an end-to-end test automation framework using **Jest** and **Cypress** based on Unit Testing, Regression Testing and Behavior Driven Development (BDD) to reduce software development cycle time.
- Led 5 engineers to develop a chat application, establish UI/UX principles, construct a **React** component library, and deliver features such as a file manager, and an onboarding system.
- Managed client and project expectations by standardizing code quality, breaking down issues into milestones, and providing detailed code reviews on **Github** to satisfy technical requirements.

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SOFTWARE ENGINEER INTERN

May 2018 - Dec 2018

- Redesigned UI of web application using **React** and **SCSS**.
- Implemented a file manager in **React** coupled with **Restful APIs** for uploading and deleting files in **Go**.

Aquatic Sciences Center

Madison, WI

WEB DEVELOPER

Oct 2017 - Apr 2018

- Implemented modern designs for the University of Wisconsin Sea Grant Institute website based on UW Theme on **WordPress**.

Projects

Portfolio Website

marktoh.github.io

WEB DEVELOPER

January 2020

- Designed a responsive portfolio website from scratch using **React** and **SCSS**.
- Showcased creativity and design skills in implementing a clean and modern user interface.

Open Formula 1

marktoh.github.io/open-f1

WEB DEVELOPER

December 2019

- Developed a web application for tracking circuits across Formula 1 seasons.
- Mapped locations of 1400 circuits since 1950 using a **Formula One API**, **React**, and **Leaflet** mapping library.
- Exhibited extreme attention to detail in designing the layout and visual hierarchy.

gALPHA Startup Incubator

PRODUCT MANAGER

June 2018

- Led the development of a mobile app that provides mural information in Black Cat Alley using Augmented Reality.
- Delivered a successful presentation to a crowd of 100 attendees.

Skills

Languages JavaScript, Python, Go, SQL, HTML, CSS

Frameworks Jest, Cypress

Libraries React, Redux, Redux-Saga, Leaflet, D3.js, Plotly.js

Tools Unix, Visual Studio Code, PyCharm, Adobe XD, Apple Notes, GitHub

Coursework Networks, Operating Systems, Artificial Intelligence, Cryptography, Databases, Algorithms

Communication English, Malay, Mandarin, Hokkien

EDUCATION

University of Wisconsin-Madison

Madison, WI

BACHELOR OF SCIENCE IN COMPUTER SCIENCE, GPA: 3.2/4.0

Fall 2018