Mark Toh

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EXPERIENCE

DATACHAT | Fullstack engineer
May 2018 – Today | Madison, Wisconsin

Leadership led a team engineers to deliver an automated onboarding software for a seamless first-time experience.

Development architectured a full-fledged business intelligence dashboard for analyzing, visualizing, and sharing big data.
- integrated a grid interface for creating, re-ordering, and deleting charts using **React** and **CRUD** endpoints in **Go**.
- incorporated **React-Redux** container and **Redux** selector patterns to organize a highly scalable front-end state management system.
- structured asynchronous logic and side effects using **Redux-Saga** middleware.

Development developed a web messenger for business analytics powered by machine learning.
- engineered a textbox that supports word styling and auto-suggest functionality in **React**.
- supported data visualizations such as scatter charts, bar charts, and geomaps using **Plotly.js**, **d3.js**, and **Leaflet.js**.
- implemented a table that has support for sorting, pagination, and downloading.

Design redesigned **UX/UI** of application.
- brought life to application by paying attention to micro-interactions in **CSS3**.
- applied modern **CSS3** techniques to enable **responsiveness** across varying screen sizes and browser types.

Dev Ops improved software uptime, development time, and deployment time.
- identified and automated common commands using **npm** and **makefiles** to accelerate to development and deployment.
- engineered an end-to-end test automation framework using **Jest** and **Cypress** based on **Unit Testing**, **Regression Testing**, and **Behavior Driven Development (BDD)**.

AQUATIC SCIENCES CENTER | web developer
October 2017 – April 2018 | Madison, Wisconsin

Design implemented designs for the University of Wisconsin Sea Grant Institute website using **HTML**, **CSS**, and **WordPress**.

PROJECTS

DAILY | Fullstack Engineer
https://daily-100.herokuapp.com/

Development developed a dashboard application for monitoring daily information.
- delivered top headlines from ABC, BBC, and Vice news using **HTTP**, **REST**, **AJAX** and **JSON**.
- designed to be fully **responsive** across varying screen sizes and device types.
- built using **Node.js**, **Express**, **React**, and **News API**.

EDUCATION

UNIVERSITY OF WISCONSIN-MADISON | B.S. in Computer Science
August 2015 - December 2018

INTI INTERNATIONAL COLLEGE PENANG | General Education
January 2014 - May 2015

LANGUAGES AND IT SKILLS

LIBRARIES/FRAMEWORKS
Front-end
React • Redux • Redux-Saga
Testing
Jest • Cypress
Visualization
Plotly.js • Leaflet
Back-end
Node.js • Express

PROGRAMMING
Advanced :
HTML, CSS, JavaScript
Intermediate :
Python, Go

TOOLS
Design
Adobe XD
Powerpoint
Development
Github
Agile
Kanban