Mark Toh Thean Ker

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EDUCATION

B.S. in Computer Science, *University of Wisconsin-Madison*   December 2018

TECHNICAL SKILLS

- **Libraries/Frameworks:**   React, Redux, Redux-Saga, Jest, Cypress, Plotly.js, Leaflet, Node.js, Express
- **Programming languages:** HTML5, CSS3, JavaScript, Python, Go

WORK EXPERIENCE

Expedia Group | Software Engineer | Chicago, IL | https://www.expediagroup.com/   Nov 2020 – Present
A web application for booking travel experiences.
- Developed and maintained standard software applications to ensure they meet design requirements.
- Adopted and followed scrum methodology for software engineering cycle - standups, planning, retros, reviews.
- Collaborated with diverse peers to solve design, troubleshoot, and solve technical challenges.
- Applied UI design principles to assist in making decisions for user experience design.
- Produced code that is clean, maintainable, optimized, and modular with good naming conventions.

DataChat | Software Engineer | Madison, WI | https://datachat.ai/   May 2018 – Nov 2020
A web-based chat application that serves data analytics with rich data visualizations and machine learning.
- Led a team of interns in designing, developing, and testing a web application with **React**, **Cypress**, and **GitHub**.
- Organized and distributed tasks according to issue priority and each person's skill set using **GitHub**.
- Maintained a clean, modern, and standardized codebase by giving detailed code reviews on **GitHub**.
- Presented product features and technical designs to technical and non-technical audiences in business meetings.
- Designed an AI driven web-based chat application with **UX/UI** principles.
- Developed an interactive dashboard for time-based data overviews with support for dragging, resizing, and editing charts using **React**, **Go**, and **PostgreSQL**.
- Developed a user-friendly menu for uploading and deleting files using **React** and **RESTful API**s in **Go**.
- Improved usability of a data collection pipeline by enabling automated periodic data extraction from sources such as **Google Analytics API**, **Squarespace API**, and **Active Campaign API** in **Python**.
- Abstracted **React** UI Components by adopting the Container and Presentational Component Pattern.
- Modularized global states and side effects by implementing **Redux** and **Redux-Sagas**.
- Organized **SCSS** code using **Block Element Modifier (BEM)** methodology for ease-of-access and modularity.
- Built an end-to-end testing suite using **Jest** and **Cypress** by employing practices such as **Unit Testing**, **Regression Testing**, and **Behavior Driven Development (BDD)**.

PROJECT EXPERIENCE

Daily | Front End Developer | https://daily-100.herokuapp.com/   May 2020
A web application for monitoring daily information such as news and human population numbers.
- Delivered top headlines from ABC, BBC, and Vice news using **News API** with **React**.

Open Formula 1 | Front End Developer | https://marktoh.github.io/open-f1/   March 2020
A web application for tracking circuits across Formula 1 seasons.
- Visualized locations of 1400 circuits since 1950 using a **Formula One API** with **Leaflet** and **React**.
- Exhibited extreme attention to detail in designing the layout and visual hierarchy.

marktoh.me | Web Designer | https://marktoh.github.io/info/   August 2017
A mobile-first, responsive personal website.
- Showcased personal information by building a responsive website from scratch using **HTML, CSS,** and **Bootstrap.**

Languages: English (fluent) | Malay, Mandarin, Hokkien (conversational)