

Mark Toh Thean Ker

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EDUCATION

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

December 2018

TECHNICAL SKILLS

- **Proficient:** React | Redux | Redux-Saga | JavaScript | CSS | SCSS | HTML | GitHub | Cypress
- **Exposure:** Golang | SQL | Python | Node.js | Webpack | React Native | D3.js | Plotly.js | RabbitMQ | Docker
- **Coursework:** Databases | Networks | Algorithms | Operating Systems | Artificial Intelligence | Cryptography
- **Software:** Unix | Linux | Visual Studio Code | PyCharm | Adobe XD

WORK EXPERIENCE

DataChat | Software Engineer | Madison, WI | <https://datachat.ai/>

May 2018 – Present

A web-based chat application that serves data analytics with rich data visualizations through controlled natural language and machine learning.

Customer Service & Business

- Communicated effectively by illustrating product features and technical designs to technical and non-technical audiences in business meetings.
- Empathized with customers by interacting with them directly to understand their pain points, identify the root problem, and provide solutions to best fit both parties' needs.
- Clarified business requirements by asking relevant questions in preparations for feature development.

UI/UX

- Designed a user-friendly web-based chat application in **React**, **Redux**, and **Redux-Sagas**.
- Designed an aesthetic table that intelligently uses white space, column alignment, and typography in **React**.

Full Stack

- Developed an interactive dashboard (dragging, resizing, and sharing) for high-level executives to have a temporal view of their organization's data using **React**, **Golang**, and **PostgreSQL**.
- Developed a user-friendly menu for uploading and deleting files using **React** and **RESTful APIs** in **Golang**.
- Improved usability of data collection pipeline by automating periodic data extraction from third-party sources such as **Google Analytics API**, **Squarespace API**, and **Active Campaign API** using **Python**.

Front End

- Modularized 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** using the **Block Element Modifier (BEM)** methodology for ease-of-access and modularity.
- Tested web application using **Jest** and **Cypress** by employing practices such as **Unit Testing**, **Regression Testing**, and **Behavior Driven Development (BDD)**.

Management

- Lead a team of interns in designing, developing and testing a web application using **React**, **Cypress**, and **GitHub**.
- Organized, broke down, and distributed tasks according to each person's skill set and issue priority on **GitHub**.
- Established a roadmap for each task and assigned appropriate deadlines to keep track of everyone's progress.
- Maintained a clean, modern, and standardized codebase by giving detailed code reviews on **GitHub**.

INNOVATION, COMPETITION, AND LEADERSHIP

gALPHA Startup Incubator | Product Manager

June 2018

Mobile app that provides information regarding murals by local artists in Black Cat Alley using Augmented Reality.

- Clarified company vision, outlined minimum viable product, and prioritized tasks to ensure a coherent workflow.
- Encouraged candor, positivity, and resilience for a positive and solution-centric work environment.

marktoh.me | Web Designer | <https://marktoh.github.io/info/>

August 2017

- Created a responsive, mobile-first personal website using HTML, CSS, and jQuery based on Bootstrap.

Languages: English | Malay | Mandarin | Hokkien