Mark Toh

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LinkedIn: linkedin.com/in/mark-toh/   **GitHub:** github.com/marktoh   **Website:** marktoh.github.io

EDUCATION

B.S. in Computer Science, *University of Wisconsin-Madison*   December 2018
GPA: 3.2/4.0

TECHNICAL SKILLS

- **Languages:** JavaScript, Python, Golang, SQL, HTML, CSS
- **Frameworks:** Jest, Cypress
- **Libraries:** React, Redux, Redux-Sags, D3.js, Plotly.js
- **Tools:** Unix, Visual Studio Code, PyCharm, Adobe XD, Apple Notes, GitHub
- **Coursework:** Networks, Operating Systems, Artificial Intelligence, Cryptography, Databases, Algorithms

WORK EXPERIENCE

DataChat | Senior Software Engineer | Madison, WI | https://datachat.ai/   May 2018 – Present
Automated data analytics web application for data visualization and machine learning insights.
- Designed and implemented a customizable interactive dashboard suite in **React** to create, update, delete, and share live visualization plots such as scatter, violin, and bubble from preset templates in **PostgreSQL** using **JSON** data retrieved from **Golang** server aggregated using joined **Python** threads running on the background.
- Built data pipeline by consolidating data from third-party APIs such as Google Analytics, Squarespace and Active Campaign to generate comprehensive reports that drive business decisions using **Python** and **DataChat** engine.
- Engineered end-to-end test automation framework using Jest and Cypress based on Unit Testing, Regression Testing and Behavior Driven Development (BDD) to improve software development cycle time by 30%.
- Led a team of 5 engineers to design product interface and workflow by constructing custom components in **React** and **SCSS** to deliver features such as file manager, onboarding system, and better user product experience using **React**, **Redux**, and **Sagas**.
- 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.

PERSONAL AND VOLUNTEER PROJECTS

Portfolio Website | Web Developer | https://marktoh.github.io   March 2020
A portfolio website for showcasing my projects.
- Built a responsive website from scratch using **React** and **SCSS**.
- Showcased creativity and design skills in implementing a clean and modern user interface.

Open Formula 1 | Web Developer | https://marktoh.github.io/open-f1/   February 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.

Number Facts | Web Developer | https://marktoh.github.io/number-facts/   January 2020
A web application for collecting facts on numbers.
- Visualized 500 numerical facts from **Numbers API** with a custom **React** table**.**

gALPHA Startup Incubator | Product Manager   June 2018
Mobile app that provides information on murals by local artists in Black Cat Alley using Augmented Reality.
- Coordinated with the Program Director of Black Cat Alley to establish project requirements.
- Deliver project on time by outlining minimum viable product and distributing tasks effectively.

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)