Mark Toh

608-770-4619 | tohtheanker@wisc.edu

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-Saga, 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)