# Mark Toh

Software Engineer, Full Stack

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## Experience

**DataChat**                                                                                    *Madison, WI*
Software Engineer, Front-End Lead                                                      *Jan 2019 - PRESENT*
- 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 charts from Python workers and a Golang server.
- 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 reduce 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.

**DataChat**                                                                                    *Madison, WI*
Software Engineer Intern                                                                *May 2018 - Dec 2018*
- Redesigned UI of web application using React and SCSS.
- Implemented a file manager in React coupled with Restful APIs for uploading and deleting files in Go.

## Projects

**Portfolio Website**                                                                       *marktoh.github.io*
Web Developer                                                                               *January 2020*
- Built a responsive portfolio website from scratch using React and SCSS.
- Showcased creativity and design skills in implementing a clean and modern user interface.

**Open Formula 1**                                                                     *marktoh.github.io/open-f1*
Web Developer                                                                              *December 2019*
- Built 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.

**gALPHA Startup Incubator**
Product Manager                                                                            *June 2018*
- Lead the development of a mobile app that provides mural information 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.

## EDUCATION

**University of Wisconsin-Madison**                                                            *Madison, WI*
Bachelor of Science in Computer Science, GPA: 3.2/4.0                                              *2018*

## Skills

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|---|---|
| **Languages** | JavaScript, Python, Go, 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 |
| **Communication** | English, Malay, Mandarin, Hokkien |