

Mark Toh

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EDUCATION

University of Wisconsin-Madison

B.S. in Computer Science

Madison, WI

Sep 2015 - Dec 2018

INTI International College Penang

General Studies

Penang, Malaysia

Jan 2014 - May 2015

EXPERIENCE

DataChat

Madison, WI

Fullstack, Front-end Engineer

May 2018 - Present

- Led a team of 3 engineers to deliver an automated onboarding software experience.
- Architected a full-fledged business intelligence dashboard for analyzing, visualizing, and sharing big data using **React**, **Redux**, **Go**, and **PostgreSQL**.
- Developed a web messenger for business analytics powered by machine learning with **React**, **JavaScript**, and data visualization libraries such as **Plotly.js**, **d3.js**, and **Leaflet.js**.
- Overhauled **UX/UI** of application by identifying key user personas, restructuring user flow diagrams, and designing for cross-device responsiveness.
- Streamlined workflow by configuring **npm** and **makefiles** to ease development and production builds.
- Engineered an end-to-end test automation framework based on **Unit Testing**, **Regression Testing**, and **Behavior Driven Development (BDD)** using **Jest** and **Cypress**.

Aquatic Sciences Center

Madison, WI

Web Developer

Oct 2015 - Apr 2018

- Implemented designs for the University of Wisconsin Sea Grant Institute website using **HTML**, **CSS**, and **WordPress**.

PROJECTS

Daily, <https://daily-100.herokuapp.com/>

Madison, WI

Fullstack, Front-end Engineer

Jan 2015 - Present

- Developed a dashboard application for monitoring daily information such as news and human population numbers.
- Delivered top headlines from ABC, BBC, and Vice news using **HTTP**, **REST**, **AJAX**, and **JSON**.
- Visualized human population numbers on a worldmap using **react-simple-maps**.
- Designed to be fully responsive across varying screen size and device types.
- Built using **Node.js**, **Express**, **React**, and **News API**.

SKILLS

Libraries/Frameworks: React, Redux, Redux-Saga, Jest, Cypress, Plotly.js, Leaflet, Node.js, Express

Programming Languages: HTML5, CSS3, JavaScript, Python, Go

Tools: Adobe XD, Powerpoint, Github, Agile, Kanban

Spoken Languages: English, Mandarin, Malay