

# Dax (Yu-Huai) Chen

SOFTWARE ENGINEER · FRONT-END EXPERT

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📖 stackoverflow.com/users/4997172 (1500+★, top 24%)

## Education

### University of Wisconsin–Madison

Madison, WI

M.S. IN COMPUTER SCIENCE (GPA 4.0/4.0)

Sept. 2018 - May 2020

- Courses: Computer Graphics, Data Visualization, Operating Systems, Big Data Systems, Computer Networks, Compilers, Machine Learning, and Information Security. Future courses: Distributed Systems, Computer Vision, and Data Science.

### National Taiwan University

Taipei, Taiwan

B.S. IN CHEMICAL ENGINEERING

Sept. 2011 - Jan. 2016

- CS related courses: Networks and Multimedia Lab, Software Engineering, Data Structure, Programming.

## Skills

**Languages** Expert: JavaScript/ES7+/Node.js, CSS/SASS · Proficient: Java · Familiar: Python, C/C++, MATLAB, VBA

**Web Frameworks** React/Redux/MobX, Webpack, Vue, WebGL/Three.js/Babylon.js, D3.js, Web3.js, Serverless, GraphQL, Express.js, Firebase

**Software Tools** AWS EC2/S3/Lambda/CloudFront, CI/CD, NGINX, MongoDB, Docker, Vim, Git, Apache Spark, MapReduce, HDFS, Cordova

**IoT** Arduino, Raspberry Pi, ESP8266

## Experience

### Software Engineer Intern

San Jose, CA

WERIDE.AI – AUTONOMOUS DRIVING STARTUP

May – Aug. 2019

- Proposed and implemented a new front-end infrastructure library for drag-and-drop multi-window/tab/pane layout manager, using React and ReactDnD. Used by company-wide 3D visualizer web app.
- Built an online code editor into the 3D visualizer for users to create their own plugins, where user-generated-code is transpiled, evaluated, and mounted in real-time, using monaco-editor, babel-standalone, and React ErrorBoundary.
- Improved front-end performance drastically (bundle-size 26mb to 2mb; load-time 13s to 2s; FPS 10+ to 60+). Added features and fixed bugs including i18n, floating text, event-tracking, tree configuration editor.
- Built the passenger on-car visualizer Kiosk app with Android/Java from scratch, with hidden gestures for admins, deployed to production on car backseat tablet.

### Front-end Engineer (part-time, remote)

Taipei, Taiwan

PHOENIX TECHNOLOGIES

June 2018 – Jan. 2019

- Built an decentralized Ethereum DAPP using Vue and Web3.js, MetaMask, and TrustWallet, which attracted thousands of users within a week.

### Lead Front-end Engineer

Taipei, Taiwan

INSTALLMENTS INC.

May 2017 – July 2018

- Built an online payment dashboard for managing flexible installment payments, using Vue.js, NGINX, and GSAP, which supported thousands on weekly active users.
- Enhanced front-end performance by more than 30% with Webpack, Progressive Web App (PWA) and offline support. Introduced GitLab-CI/CD into existing workflow, which highly increased deployment efficiency.

### Co-founder & CTO

Sunnyvale, CA & Taiwan

CLIPO INC. (STARTUP)

June 2015 – Aug. 2017

- Raised 1.5 million Taiwan Dollars (~50K USD) funding. Joined Startup Incubators: Plug and Play Silicon Valley, NTU Garage, and AppWorks.
- Built a real-time knowledge management and sharing platform, consist of a web app and a Chrome Extension, using React, Redux, Meteor.js, AWS EC2+S3, and Docker.

## Honors & Awards

Apr. – June 2016 **20k USD Grant**, Plug and Play Startup Incubator– Silicon Valley

May – June 2016 **1st Prize**, TMU Innovation and Entrepreneurship Competition

July 2015 **2 Enterprise Awards**, NTU Hackathon 2015

May 2015 **16.5k USD Grant**, NTU Diamond Seed Fund