

SKILLS

Programming Languages: JavaScript(ES6+), TypeScript, C++, Java, Python.
Web Tech: ReactJs, VueJs, HTML5, CSS3, SASS, Tailwind, Mobx, Redux (RTK), Vuex, NextJs, Node.js, Express, GraphQL, RESTful API.
Database: MongoDB, PostgreSQL, Redis.
Automation: NPM Scripts, Webpack, Gulp,
Cloud: AWS, Heroku, GCP.
Workflow & Tools: Git, Docker, GitHub, Postman, Trello, Slack, JIRA.

WORK EXPERIENCES

Apple, Inc. (Contractor) | GBI team | Front-end Web Engineer Aug 2020 - present

1. HAWK (high-performance interactive Adhoc reporting tool) platform

A fast, customizable and scaleable, meta data driven reporting dashboards for decision making team reaching data rapidly and easily.

- Tech stack for UI development is React, Mobx, TypeScript, SASS, Webpack.
- Data is mainly displayed by a high customized table component. In average, one report contain 100kB data and render them in a 2000 rows * 30 columns table
- Application been used by at least 15 different business team. Included Reseller Operations and AVP summery (apple vision pro).
- Involved in 90% of component design. Responsible for the table component logic which constitutes the main part of every report.
- Every response should get in 3ms and User waiting time need less then 3s (base on largest scale).
- Built a fully front end aggregation logic to covert a plain data into a hierarchical data structure.
- Fully responsible for state management store design. Involve OOP language principle to improve reusability since we are using Mobx for state management.
- Delivered 6 different report templates. Each template have different table structure. Still 60% of component and store is fully reused although each template have different coordinate definition .
- Using and adjusting an internal lightweight CSS grid layout based React library to fulfilling general and light data displaying template.
- Using Ag-grid to build a highly interactive table component. Mainly use enterprise pivot feature.
- Lazy loading component when enter or switching from different report. Using module federation to provide a template level modulation and further reduce the bundle size.

2. HAWK embedding Tools

A separate library to embedded hawk to other project which have some UI but not want to build a complex table for data displaying.

- Hawk will be embedded by Iframe and be encapsulated into a component for easy access.
- Supporting both React and Angular project.
- Allow user to customized any part embedded HAWK application. Only keep what is required.

3. HAWK onboarding platform

An Web interface to help new user to create meta data and onboarding their data to HAWK.

EDUCATION

Stevens Institute of Technology, NJ, United State

Aug 2018-May 2020

- Master of Science in Computer of Science
- GPA: 3.968

Beijing University of Posts Telecommunications(BUPT) , China

Sept 2013-June 2017

- Bachelor of Engineering in Internet of Things Engineering