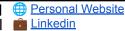
Tingchao (William) Xu





Summary

Passionate Senior Front-End Developer with 7+ years of experience building high-performance, scalable, and accessible web applications. Demonstrated success in delivering complex projects using React, Next.is, Vue, TypeScript, Node.is, and GraphQL, with specialized expertise in **UI performance optimization**, secure coding practices, and responsive design. Skilled at leading front-end teams, mentoring engineers, and partnering with cross-functional stakeholders to launch impactful products. Proficient in **leveraging Al-powered development tools** to accelerate delivery, enhance code quality, and drive innovation.

Tech Stack

- Languages & Syntax: JavaScript | TypeScript | Python | Java | HTML | CSS3 | ES6 | Tailwind
- Front-End: React | Redux | Next.js | Vue | Vuex | React-Native | Three.js | D3.js | GraphQL
- Back-End: Node.js | Express | MongoDB | Redis | MySQL | Restful API
- Al Tools: GitHub Copilot | ChatGPT | Claude.ai
- Cloud & Testing: AEM | AWS | Unit Test | End-to-End Testing | Integration Testing

Experience

Walmart Lab - Senior Front-End Developer

Apr 2024 - Current

- Tech Stack: JS, TS, React, Next.js, Hooks, SASS, Tailwind, Node.js, Express, ES6, GraphQL, Unit Test, and Integration Test.
- Led the development of GraphQL-based middleware for three regional List and Registry systems, unifying data access between back-end and front-end, improving integration efficiency, and driving significant cost reductions.
- Led the development of key features for Lists and Registry, building reusable shared components and implementing robust state management for complex data interactions. Streamlined data access through GraphQL integration and ensured high-quality production releases via thorough unit and integration testing.
- Developed features at the architectural level, focusing on **enhancing web performance**, **scalability**, and code **reusability**.
- Leveraged AI tools like Copilot and ChatGPT to accelerate feature development, generate tests, and streamline code reviews, boosting overall development efficiency.
- Mentored mid-level developers by conducting code reviews, facilitating knowledge transfer, assigning tasks, and collaborating on new initiatives to foster team growth and efficiency.

<u>AutoDesk - Senior Front-End Developer</u>

<u> Jan 2022 – Feb 2024</u>

- Tech Stack: React, Redux, Hooks, React-Query, SASS, CSS3, Bootstrap, Node.js, Express, JavaScript, Typescript, ES6, Google Analytics, MongoDB, AEM, Restful API, GraphQL, Unit Test, and Functional Test.
- Oversaw development and maintenance of several payment system components, including checkout, payment, address, summaries, and invoice pages.
- Enhanced payment page efficiency by 30% by utilizing useCallback, useMemo to reduce re-render, and using AEM to optimize web response time and **GraphQL** to reduce the number of API calls.
- Implemented GraphQL to manage comprehensive data from various data sources efficiently. This optimization reduced 50% of API calls to the server and 30-40% of data transmission from the server.
- Unit test components and utilities with Jest, and conduct Functional tests for web flows and React components using the **Cypress** testing framework.
- **Mentored** 3+ engineers, both on the tech side and career path.

<u>LogDNA - Front-End Developer III</u>

Jan 2020 - Jan 2022

- Tech Stack: JavaScript, ES6, Vue.js, Vuex, SASS, CSS3, Node.js, Express, Restful API, Webpack, MongoDB, Redis, Unit Test, and Functional Test.
- Developed a dashboard component by utilizing Vue Chart.js to generate canvas for various logs with timestamps and counts.

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- Led 3 engineers to implement Drift Chat services into the application, effective communication and coordination across PD,
 UI/UX, Engineering, and Customer Service teams. This resulted in a 50% reduction in customer load.
- Led 3 engineers to implement Stripe payment services by using Stripe payment APIs to create invoices, plans, subscriptions, and others for various use cases.
- Unit test components and utilities with Jest, and conduct functional tests for web flows and Vue components using the Cypress testing framework.
- Store and maintain user info in MongoDB with Nodejs, Express, RESTful API, and Mongoose.
- Mentored 3+ engineers, both on the tech side and career path.

Sam's Club - Front-End Developer II

Jun 2019 - Jan 2020

- Tech Stack: React, Redux, SASS, CSS3, Bootstrap, Nodejs, Express, JavaScript, ES6, Webpack, Microservices Architecture,
 Micro Front-End Architecture, and Restful API Responsible for login and registration page, two-factor authentication, and reset password flows
- Responsible for the membership page, join membership page, and payment methods.
- Developed a website using **Microservices Architecture**, reaching different data from different services, such as the authorization service for login page, the payment service for authorized payments, and so on.
- Build communications between servers by using GraphQL to pass specific nested data.
- Unit Test website component by using Mocha, Enzyme, and Functional test with Nightwatch.js

Apple - Front-End Developer

Jul 2018 – Jun 2019

- Tech Stack: React, Redux, SASS, CSS3, Bootstrap, Node.js, Express, JavaScript, ES6, JQuery, Webpack, and RESTful API.
- Develop React Library with dynamic designing structure and publish it on NPM.
- Design the website structure using HOC and pure components to build a website based on a JSON file.
- Set up the back-end with **Node**.js and **Express** to react the data from the server with react **socket**, and auto push the data to every linked client side.
- Led 2 engineers to develop a new website from scratch, which can dynamically customize website structures, themes, and content layouts based on user settings.
- Use Code-splitting with Webpack bundler and Dynamic Imports code design for Lazy-Loading to maximize website
 performance.
- Use RESTful API to communicate with the server at the back end to fetch life data every 5 seconds.

EDUCATION

B. S. Computer Science, University of Arizona, AZ

2013-2017