

# Alvin Xu

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Portfolio | GitHub: <https://github.com/Xu929-X1>

## Summary

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- Around five years of experience developing professional SPAs with HTML5, CSS3, JavaScript, React, Vue, Redux, Express, and Socket.io.
- Proficient in industrial standard developing processes with tools like Webpack, Babel, and Browserify.
- Proficient with React-related tools, including Redux, RTK, redux middlewares, React Router, and React-TS.
- Experience in conducting unit tests with libraries including Jest and React-testing libraries.
- Experience building scalable and reusable selective styling logic for React components with SASS.
- Knowledge of building 3D interactive websites with R3F, R3F-Drei, and postprocessing. Worked with customized materials by using GLSL.
- Familiar with using Express to build reverse proxies and middlewares.
- Familiar with common design patterns in front-end development like Observer, MVC, MVVM, and pub/sub pattern.
- Familiar with UI design tools like Adobe XD and Figma.
- Strong communication skills and collaboration with cohorts. Excited about new challenges and can learn fast to tackle them.

## Technical Skills

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**Programming Languages:** JavaScript, TypeScript, Python

**Web Technologies:** React, Vue, DOM, Node.js, Express, JSON, XML, Ajax

**Testing Tools:** Jest, React Testing Library

**Version Control:** Git

**SDLC Method:** Scrum, waterfall

## Work Experience

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Front End Engineer, **Air**

Oct 2021 - Present

New York City, NY

### Project: Visual Workspace

**Summary:** Visual workspace is a cloud-based content management system for marketers, creative teams, and enterprises. Similar to Dropbox, users can store their media assets in the cloud. Whereas Dropbox is more like a file system, Air provides a more intuitive and cleaner way. The visual workspace allows a direct view of the media assets, eliminates duplicated files, and tracks updates for team collaboration eventually providing an improved user experience.

- Developed the features in the project with React-TS, Redux, React Router, SCSS, Webpack, Babel, CircleCI CICD pipeline, and git/GitHub for version control.
- Created the media asset table component with list and gallery mode. Realized server-side pagination, lazy-loading, infinite scroll, and preloading. Optimized memory usage.
- Realized sorting functions. Ordered the assets based on alphabetical, tag, grade, uploading time, etc, and dynamically update the view.
- Implemented social-media sharing functionalities for Instagram, Facebook, Twitter, etc, following the developer API usage guidelines provided by those companies.
- Implemented image upload feature with createObjectURL. Filtered out files with invalid suffixes and exceeded sizes.

- Implemented BFF in Node.js to centralize different services, reduced the complexity, regulated the transmission mode, and avoided network bottlenecks due to exceeding amount of requests.
- Implemented unit tests with Jest and RTL with good code coverage, followed the Scrum principle, and conducted code reviews

Front End Developer(remote), **Sky Group**

Oct 2019 - Jul 2021  
Shanghai, China

### **Project: CRM System**

**Summary:** The CRM system is bespoke for the sales team of a drilling bit manufacturer. The system is aimed at improving the efficiency of the sales, maintaining customer relationships, automating task assignment and implementation, centralizing customer resources, recording the feedback, analyzing the validity of the strategy of the sales, and eventually boosting the profit.

- Participated in gathering requirements from the client. Consulted and collected demands on the CRM from sales managers and sales. Assisted in conciliating conflicts among different stakeholders and writing the PRD.
- Developed the project with React-TS, Redux, React Router, React Tables, SCSS, and a Spring Boot backend.
- Created SCSS mixins, logics, and variables for reusable and extensible stylesheets for the table component.
- Fetch data from the backend through RESTful APIs and test with Postman. Sort the data based on the user's requirements and dynamically render it.
- Realized pagination and infinite scrolling mode for the table component with server-side pagination. Using prefetch and preload for better performance and user experience.
- Utilized Cookie-based JWT for authorization on requesting, modifying, and deleting the data from the database.
- Conduct testing with Jest and React-Testing library to ensure features were correctly implemented with 90% code coverage.

UI Developer, **M.M Hayes**

Jan 2018 - Jun 2019  
Albany, NY

### **Project: UKG Dimensions**

**Summary:** UKG Dimensions is an integrated workforce management solution that includes HR, payroll, talent, and analysis of employer performances.

- Responsible for translating design layout to webpages by using HTML and CSS, utilizing JavaScript, and jQuery for interactivity of the webpage.
- Involved in developing cross-browser compatibility and adaptive design webpages using WebKit and media query in CSS.
- Utilized jQuery AJAX to fetch data from APIs provided by the backend, and use the data to render the components dynamically.
- Implemented MVC pattern to make the code scalable, maintainable, and reusable.
- Involved in daily standup meetings, sprint meetings, and retrospective meetings within each sprint cycle.