

# Yuanda Xu

SOFTWARE DEVELOPER

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## Summary

- Over 5 years of experience in front-end web development using HTML5, CSS, JavaScript, along with advanced libraries like React, Redux.
- Solid understanding of the concept of Object-Oriented Programming (OOP).
- Proficient in HTML5 new features, including Form validation, Web Worker, Local Storage, Session Storage, Application Storage, etc.
- Familiar with responsive web design with CSS media queries, flexbox and frameworks such as Bootstrap grid.
- Strong understanding of Vanilla JavaScript including Closures, Hoisting, Scoping, Promises, async await, prototypes, etc.
- Hands on experience in using React with ES6 features to exploit reusable component (function and class component) and using Redux as a predictable state container and improve the maintainability of the code.
- Strong understanding of React Virtual DOM concept and utilize React component lifecycle to define events and state management.
- Expertise at working with RESTful web service and APIs to implement AJAX calls and deploy corresponding data on the page.
- Experience in debugging and troubleshooting and familiar with debugging tools like Jest.
- Experience in building back-end APIs with Node.JS, Express, and MongoDB.
- Strong understanding of Software Development Life Cycle like agile and waterfall, experience in using JIRA and agile development process.
- Good understanding of design patterns, including IIFE, Module, Prototype, revealing prototype patterns.
- Experience with Git for source code version management and NPM for package management.
- Excellent communication and inter-personal skills, well organized, goal oriented.
- Experienced in using IDE's including WebStorm, VS Code, Eclipse, Notepad++.



## Technical Skills

### Front-end Languages:

HTML, CSS, ES5/ES6  
Vanilla JavaScript,  
TypeScript

### Frameworks & Libraries:

React, React-Router,  
Next.JS, Bootstrap,  
Webpack, BABEL, AJAX,  
JSON, SASS, Formik, Yup,  
JWT

### State Management

#### Tools:

Redux, Recoil, Context  
API

#### Testing:

Jest, React-test-library

### Back-end Technologies:

Node.JS, Express,  
Mongoose, Restful API

### Database:

MongoDB, MySQL

### Methodologies:

Agile, Waterfall

### Version Control &

#### Others:

JIRA, Git, Eclipse, Visual  
Studio Code, WebStorm



## Project Experience

Mar 2022 -  
Present

**Software Developer | Prudential Financial Company |  
Newark NJ**



### Description:

Prudential is a company that provides insurance, investment management, and other products and services. The project is to develop an internal use web application focused on the stock market, especially the S&P 500.

### Responsibilities:

- Utilized React for building a component-based single page application (SPA) along with server-side Restful APIs.
- Implemented client-side routing by using React Router.
- Utilized NPM to update the project and install packages.
- Created reusable and testable functional and class components using ES6.
- Implemented Redux along with react for state maintenance, creating actions and reducers to pass stateless data around components.
- Used Flexbox to create a responsive layout UI.
- Used chrome-dev-tools, react-dev-tools for debugging.
- Used React, JavaScript to create controllers to handle events triggered by employees and send requests to the server.
- Used Axios to retrieve and post data between the front end and back end.
- Used custom hooks to improve component reusability.
- Used Formik along with Yup to create forms and data validation.
- Used JWT for authorization and accessibility.
- Utilized redux-thunk as middleware to handle the asynchronous flow.
- Performed Unit testing on React components using Jest.
- Extracted key information from stock market data, arranged and calculated data based on requirements, then display these data to users.
- Established a back-end server using node.js. Connected MySQL and MongoDB to the server. Created necessary APIs that returned related information for users.
- Fetched transaction data from the back-end server, employed these data to calculate indispensable information, and exploited React components based on processed data.
- Used webpack to bundle and package React project.
- Used Agile software development methodology and interacted with the back-end staff.
- Participated in Agile and TDD methodology for web Development and used JIRA as the project management tool.
- Review the tickets in JIRA system then change and fix the bugs QA required.

Feb 2022 –  
Dec 2020

**Front-end Developer | BCG Digital Ventures | New York, NY**



**Description:**

BCG Digital Ventures is a business builder that helps organizations invent, launch and scale business, products, and platforms. This project is to design and improve the product management system. Arrange product stock and check the store availability.

**Responsibilities:**

- Implemented the web application using HTML5, CSS3, Bootstrap, React, Redux, Ajax, Axios with RESTful web service.
- Utilized React, React Router for building a component-based single-page application (SPA).
- Used Axios Ajax request to fetch data from the backend server based on user interface input and post-update data back to the backend server.
- Designed and implemented reusable components to make the web application robust and user-friendly.
- Implemented Redux along with React for state maintenance and action dispatch.
- Created and used stores, reducers, and actions to fulfill the react-redux application.
- Worked with Jest for unit testing and wrote unit test codes.
- Communicate frequently with the backend team for API requirement issues and data passing standards, and use RegEx to limit the user interface input.
- Interacted with QA, and project manager to fix issues and make desired changes.
- Adopted Git as a version-controlling tool. Commit, merge branches, and push codes on Git.
- Work under JIRA, Agile environment, attending regular meetings monthly and weekly for requirement issues and ticket dispatch.
- Review the tickets in the JIRA system then change and fix the bugs QA required.

Oct 2020 –  
SEP 2019

**Front-end Developer | American International Group | Plano, TX**



**Description:**

AIG is a company that provides a wide range of property casualty insurance and other financial services. This project redesigned and rebuilt the Automated Billing System which is used by sales and procurement staff to prepare the price for customer quotes.

**Responsibilities:**

- Involved in all stages of Software Development Life Cycle, analyzing, designing, implementing and testing an e-commercial platform.
- Developed the Front-End of web application using HTML5, CSS3, Javascript, ES6, ReactJS and Redux.

- Designed and create reusable React.js components and High Order Components to optimize the code and reduce the difficulty of maintenance.
- Utilized React.js and React Router in the development for building single page application(SPA) and consuming RESTful web services.
- Used React-router to route the components according to routes.
- Used pure functions (Reducers) and Action Object to change the store.
- Managed the states of the application using Redux.
- Implemented responsive web design and mobile-friendly design using Bootstrap grid system and CSS media query.
- Used NPM to manage the packages.
- Worked the agile process management and minimal supervision, attended daily scrum meetings.
- Used Git for source code management and collaborating with teammates.

AUG 2019 – **UI Developer | BMS | Lawrenceville, NJ**  
AUG 2018



**Description:**

BMS is a biopharmaceutical company. The project is to develop a human resource management web application to manage employee information, track employee records, and handle recruitment and onboarding processes.

**Responsibilities:**

- Using React to build a declarative, component-based single page application (SPA) and React Router to implement the navigation of multiple views.
- Using ReactDOM to render components depending on the information provided by users.
- Using Fetch API and JSON to interact with RESTful APIs and manipulate dynamic content and style in the webpage.
- Using React Redux to create a Redux store holding the application state, implement reducer handling the actions that components trigger and dispatch, and generate new state refreshing the user interface.
- Using redux-promise, and redux-thunk as middleware to handle actions with promise payloads to only dispatch resolved data from the front end.
- Used High-Order Components to improve component reusability.
- Using Bootstrap grid system and CSS media query to implement responsive web design and mobile-friendly design.
- Cooperating with QA, manager, and team members to test for browser compatibility issues and implement cross-browser accessible interfaces.
- Working in an Agile environment with regular meetings weekly and team conference monthly.



**Education**

Master of Science in Computer Science  
Montclair State University | Montclair, NJ