**Winnie Wu**

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**Summary**

* 7 years of experience in Full-Stack/Front-End development websites using **HTML**, **CSS,** **LESS, SCSS, JavaScript**, **TypeScript**, **React, Redux**, **MoBX**, **RxJS, Angular**, **Fluent UI , Bootstrap**, **Material-UI**, **Office UI Fabric, ASP.NET, C#, Restful API**, **Config API** , **PSWS**, **Node JS,** **Express JS**, **Mongoose**, **Kusto**, **AJAX** and **JSON**.
* Experienced in **ES6**, **React** states and props, **Redux** Middleware, **TypeScript** types, **RxJS** Observable.
* Experienced in new features in **ES6** including promise, scoping, class, destructing assignment, Regular Expression.
* Experienced in using **NPM** and **Yarn** for necessary modules and libraries.
* Experienced in implementing components, Router, Forms, Events, Keys, Single Page Applications(**SPA**) for UI library, **React**.
* Experienced in configuring and using **HTTP** request.
* Understanding deeply in using component lifecycle methods.
* Experienced in using **CSS/CSS3** including **Flexbox** and **Media Queries**.
* Experienced in improving web **accessibility**.
* Experienced in using **Bootstrap,** **Material-UI, Fluent UI , Office UI Fabric** for web layout and icon.
* Experienced in implementing responsive web application by **HTML**, **CSS** and **Bootstrap**.
* Used the concepts of Pseudo classes, layouts, positioning, text, padding, border and transforms in many projects.
* Experienced in developing client side by **React** and **Angular** as the **UI** library which follows **W3C** standards.
* Skilled in using **Chrome Developer’s tool**, **React developer Tools,** **Redux DevTools**, server-side terminal and client-side terminal to debug web application.
* Experienced in using **Node JS** framework, **Express JS** and creating **Restful API**.
* Experienced in calling **Config API** and **PSWS**.
* Experienced in using **Mongoose API** to manipulate data in **Mongo DB**.
* Experienced in developing event driven applications using **AJAX**, **JSON** and **XML**.
* Experienced in creating styles in **CSS,** **LESS** and **SCSS.**
* Detailed understanding of **Virtual DOM** manipulation, One-way data flow, and **JSX**.
* Experienced in building scalable **MERN** stack applications.
* Experienced in Developing, Testing, Debugging, Integrating and Deploying enterprise applications using Integrated Development Environment (IDE) **IntelliJ IDEA**, **Eclipse** and **Visual Studio**.
* Skilled in **Git** workflow.
* Experienced in **Agile, SCRUM** software development.

**Skills**

* Web Technologies: HTML, CSS, LESS, SCSS, SCES6, JavaScript, TypeScript, JQuery, Bootstrap, Material-UI, Office UI Fabric, Node JS, Express JS, React, Redux, RxJS, MoBX, Angular, JSON, AJAX, XML
* Database: NoSQL, MongoDB, MySQL
* Language: JavaScript, TypeScript, Java, C#, C, Python, C++

**Projects**

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|  | **Microsoft**, **Redmond, WA**  **05/2019-02/2021****ITPro-Admin Portal, Front End Developer*** Owned, drove, developed and released **First Run Experience** feature to users worldwide of Teams admin center among **Chrome**, **IE**, **Edge** and **Firefox**.
* Experienced in implementing sophisticated data stores and services by **MoBX** and **RxJS** through **PSWS** and **Config API**.
* Experienced in maintaining and improving **Unit Test** code coverage up to **82.5%**.
* Experienced in releasing features from preparing **DEV Spec**, developing components by **React**, developing **Unit Test** by **Jest**, **E2E** automation Tests by **Protractor** and flighting them by **ECS**.
* Experienced in monitoring **UI health** and implementing **Telemetry** tables by **Aria**.
* Experienced in troubleshooting incidents by **Kusto** query.
* Responsible for improving web **accessibility** by **ARIA** attributes.
* Experienced in introducing new libraries to **React** component from **Fluent UI**, aligning with current pattern, theme and accessibility.

**Azure Cloud Collaboration Center, Front End Developer*** Responsible for developing data visualization of Azure services around the world.
* Responsible for migrating responsive web from **Angular** platform to **React** platform for desktop and video wall view.
* Created **React** Component. Created CSS by **Component Styling**. Created mock data by **JSON** method before having real data. Created data type by **TypeScript**. Created **Unit Test** by **Jest**. Created **E2E** test by **Puppeteer**.
* Used open source libraries such as **ChartJS** and implemented custom changes to meet **UX** design and **PM** requirements.
* Responsible for calling **API** using **React Component lifecycle** method from Frontend.
* Responsible for creating routes inside **Router**.
* Responsible for creating **responsive** web for desktop, video wall and small devices.
* Responsible for creating reusable **React** component.
* Experienced in creating **dynamic styles** based on updated state.
* Experienced in using **Flexbox** to do layout.
* Experienced in implementing **conditional rendering**.
* Managed necessary modules and libraries for **React** component from **Yarn**.
* Used **Web Axe** and **Lighthouse** to test web performance. Responsible for improving web **accessibility** by **ARIA** rolesandproperties.
* Debugged **React** component by adding debugger, using **console.log** and adding **breakpoint** from **Chrome Developer’s tool**.
* Experienced in resolving code errors through **ESLint**.
* Responsible for updating **API** by **C#** and creating unit test from Backend.
* Familiar with **DRI** process. Responsible for mitigating and resolving incidents in limited time.
* Experienced in working with **Azure DevOps**.
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|   | **Intuitive Surgical, San Jose, CA 07/2018-04/2019****Full Stack Developer*** Responsible for developing Surgical Robotic Product Management to search, sort, add, edit, delete, paginate, send email and make phone calls for information searching.
* Responsible for developing **Node JS** for server side and installing modules for design requirements.
* Implemented **Express JS** for router, model and controller
* Created **Restful API**s for each web feature except getting particular detail by using **Mongoose API**.
* Developed **Mongo DB**(NoSQL) for surgical product data and connecting with **Express JS** through **Mongoose**.
* Designed product data schema in **Express JS** model.
* Used **JSON** to send response from server side.
* Responsible for developing and testing web client side by using **React**, **Redux**.
* Created UI components for principal features.
* Communicated client side and server side by making axios calls from the client side.
* Built necessary actions in **Redux** store.
* Used Middleware, **Redux Thunk** to receive data from **Restful API** calls.
* Created **Reducer** in **Redux** to receive different actions and change states accordingly.
* Implemented client side Interface by **React** for **DOM** manipulation.
* Implemented dispatch actions and states from **Redux** store to **React**.
* Implemented necessary modules for **React** from **NPM**(Node package Manager).
* Implemented **Router** for **SPA**.
* Worked with **Redux** state, used **Redux** store as props and passed it to **React** container component..
* Built form for the product list and fetched user actions.
* Debugged the web using **Chrome Developer’s tool**, **React developer Tools**, **Redux DevTools**, server-side terminal and client-side terminal.
* Wrote **JavaScript** and **JSX** for component manipulation.
* Implemented **HTML5**, **CSS3** including for editing view and adding view and **Material-UI** for product list view for layout.
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|  | **Bio-Pharm Inc, Pittsburgh, PA**  **01/2018-06/2018****Web Developer** * Designed a email client system and separated email data in collections for inbox, sent, drafts, trash. Showed the number of emails in each collection.
* Implemented **React** for manipulating virtual **DOM** tree to update the web quickly and change **HTML** views.
* Implemented 3 components for toggle email, email list and email detail for UI library, **React**.
* Initiated necessary state in **Redux** store. Designed action to get email data from **Mongo DB** in **JSON** format. Used actions and previous state in **Reducer** to update state.
* Implemented Middleware, **Redux Thunk** for action of calling **API**.
* Implemented Events, Keys and used props in components
* Developed **SPA** using React to utilize the **HTML DOM** features.
* Designed the web using **HTML5** and **CSS3**.
* Designed **CSS3** styles to maintain the uniformity of all the screens throughout the application and positioning of screen objects.
* Developed animated buttons.
* Implemented **Flexbox** for layout.
* Implemented necessary modules for **React** from **NPM**(Node package Manager).
* Debugged the web using **Chrome Developer’s tool**, **React developer Tools**, **Redux DevTools,** server-side terminal and client-side terminal.
* Used **JavaScript** and **JSX** for component manipulation.
* Invoked in creating reusable components by modify **Material-UI** classes.

**China Merchants Bank, Shanghai, China 05/2015-07/2016****Software Engineer**  * Designed an image categorization system that allowed user to import 16682 images and predict the image category in 20 classes with accuracy of 0.59.
* Sampled randomly 10% of the images as validation set for training **CNN**.
* Sampled randomly an additional 10% as test set for evaluation.
* Used pretrained network firstly to extract image features and trained a **SVM** classifier which discriminated between 20 object categories.
* Run each image in train sets through pretrained network and extracted layer feature.
* Tested **SVM** on the test sets.
* Run each image in train sets through pretrained network and extracted layer feature.
* Tested **SVM** on the test sets.
* Trained a new network by exacting image features from **CNN**.
* Set the classifier to output 20 object classes in dataset.
* Implemented a loop to loop through train sets 25 epochs.
* Extracted features for each image stored them.
* Provided Caffe with the images and labels.
* Trained a linear **SVM** by features stored to predict which class an image came from.
* Trained train sets in **MATLAB** and evaluated the network on validation set.
* Reported accuracy of the new network on the train set and test set without **SVM**.
* Used **MATLAB**, **Caffe package**(a popular deep learning framework for Computer Vision.
* Plotted train losses and validation set accuracies.

  **ZhengZhouHuaRunWanXiangCheng ,** **Henan, China 01/2013-12/2014** **Junior Software Engineer*** Developed raw shopping mall Parking Lot System.
* Responsible for client’s requirement including parking time.
* Used Java Spring Boot to create **Restful API**s.
* Implemented client side with JavaFX and styled JavaFX with **CSS**.
* Modeled parking lots and one garage door for vehicles entering and exiting.
* Simulated the first car parking from one side and other cars parking in a sequence followed.
* Implemented parking classification for customers, staff and members.
* Implemented one data model including vehicle license, arrival time and departure time.
* Stored data with **XML** in **MySQL**.
* Stored updating data in local cache and also updated to database, **MySQL** in case of power failure.
* Made output for vehicle parking number or position in waiting line.
* Made output for vehicle staying time in parking lot and parking fee.
* Hooked up with external charging system for cashier to manage.

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**Education**

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|  | University of Pittsburgh Pittsburgh, PAMaster of Science: Electrical Engineering |

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|  | Zhengzhou University Henan, China Bachelor of Engineering: Communication Engineering |