**Shawn Chen**

**Summary**

* Highly experience in front-end development and UI design, with solid understanding of popular Front-end Frameworks (**React, Angular**), functional **JavaScript, Database (SQL, NoSQL)**, **Testing**, SDLC pattern and UI design. Mainly focused on Healthcare, Automobile, finance, and international trade domains.
* Worked with multiple programming languages: **JavaScript, TypeScript, HTML, CSS**, **Python, Java, SQL** and **Visual Basic**.
* Extensively worked with **MERN/MEAN stack** web application development, using **React.js/Angular** for client side, **Node.js/Express** for server side, **Mongoose/MongoDB** for data storing.
* Strong experience in creating **Single Page Application (SPA)** using **React.js v15/16, JSX, React Nesting Components, React-Router, Redux, Modelling state &amp**; State management using **Redux** and **Redux-Thunk**, **Saga** for asynchronous calls.
* Developed and worked with **Angular 4** features to create **Directives, Components, pipes, observables, services, routing, guard**, **HTTP Client** and **form modules**.
* Good understanding in developing **Responsive User Interface** (UI) HTML5, CSS3, **Bootstrap 4**, JavaScript, jQuery, CSS3 Media Queries.
* Used **MongoDB** as a database to store data in the form of documents using **NodeJS** modules like **Mongoose** and **MongoDB**. Also experience with SQL expression, stored procedure with databases like **MsSQL, MySQL** and **SQLite**.
* Proficient in using **Node JS and Express JS** for making GET, POST, PUT, DELETE requests for fetching data from **Restful APIs** provided by the backend team and from the web source.
* Expertise in DOM manipulation using **jQuery** and consuming **REST API calls** using **jQuery AJAX**, implementing dynamic webpages where the content can **be fetched via API calls**, using **RESTful web services, testing API by using Postman**.
* Experience in implementing **JSON Web Token** for server-side authentication**.**
* Familiar with backend programming with **Python** and **Java**, Understand **data structure**, **algorithm** and OOPs concepts (**Encapsulation, Inheritance, Polymorphism** and so on).
* Experience with task runner tools such as **Grunt** and **Gulp** to help automate repetitive tasks.
* Experienced in Unit testing using **Karma** and **Jasmine** along with **Test-Driven Development (TDD)** methodology.
* Hands on experience in **GIT** for version control, **Jenkins** for Continuous Integration and Deployment (CI/CD) and **JIRA** for bug and issue tracking.
* Experience in fetching data from web service responses in the form of JSON using HTTP calls and **Python** **BeautifulSoup**, can creating progress views as visual charts by using dynamic data visualization tools like **HighCharts, D3.js, Tableau**.
* Used **Agile/Scrum** methodologies for SDLC Purposes.
* Ability to write clear, well-documented and efficient code for web development.

**TECHNICAL SKILLS:**

**Web Technologies: \**  **Framework/Library\**

HTML, CSS, Media Queries, Bootstrap, AJAX, jQuery, AngularJS, Angular 7, Express.Js

TypeScrES6, LESS, SASS, Http, RESTful Services Node.js, React.JS, Redux, Angular.js, D3.Js

**Programming Languages\** **Application Server\**

HTML, CSS, JavaScript, TypeScript, Python, Java Apache HTTP server, Webpack\

**IDE & Tools: \ Version control and other tools\**

MS Visual Studio, Babel, Photo Shop SVN, GIT, Bitbucket, Jira, Dropbox

Eclipse, Photoshop, Notepad++, Microsoft Visio,

Studio.3T, Postman, Sublime Text, MySQL

**Operating Systems: \ Databases\**

Windows, Mac, Linux\ MySQL 5.x, MsSQL, MongoDB, Access

**Network troubleshooting: \ Data Processing: \**

Network and OS: TCP/IP, IP Addressing, Python web crawler, Pandas, Scikit Learn,

DNS/DHCP, OSI network model D3.Js, Toucan, Tableau, SAS, SPSS

**Professional Experience:**

**Marlabs Inc. Piscataway, NJ 6/2020 – Present**

**Gemini Health**

**Frontend Developer**

**Project Description:**

Gemini Health was founded in 2014 by seasoned healthcare executives and clinicians with decades of experience in health care industry. The main business is focusing on reducing drug costs and pharmacy hassles by delivering drug and alternative cost transparency at the point of prescribing. Our project is to developing web-based system to help patients and providers to find a most cost-efficiency plan based upon patient-specific coverage and out-of-pocket. The system can greatly save providers’ time and patients’ cost.

**Responsibilities:**

* Developed SPA using **React Redux architecture, ES6,** **WebPack** and **Babel.**
* Built layout with **React-Bootstrap Nav**, **Form and Carousel** Components and **CSS** Style.
* Developed React **functional** and **class components** and modularized code with import and export properties.
* Built modules using React.JS features like **Components, Lifecycle methods**, **unidirectional data flow** and implemented Routing using **react-router-dom.**
* Extensively used **Redux** architecture for application state management.
* Used **Axios** to request **RESTful API** and realize the function of searching and updating patients’ information.

**Environment:**

**JavaScript, Bootstrap, React JS, Redux, Git, AXIOS, Restful API and Jest**

**Toucan Toco, Boston, MA 2/2020 – 5/2020**

**UI Developer/ Programmer**

**Project description:**

Toucan Toco is a French Technology company, which allowed users to discover the powerful side of reporting and creating a data culture. It has more than three hundred clients, which include Renault, Heineken, Marques Avenue, Euler Hermes, BIC, SNCF and so on. Toucan’s business is focused on providing non-technical clients a platform to do the data visualization and generate web reports for data story-telling and decision-making purposes.

**Responsibilities:**

• Involved in toucan document website development, based on **react/ react native** technologies.

• Used **React Native Flex box, Javascript, CSS, UI materials** to design the UI page of the manual documentation website.

• Applied **Jquery and JavaScript** function to realize the interactive in the website.

• Joined the process with connecting databases with toucan platform and other database tools by Python **ODBC (MySQL, MongoDB, MsSql, Excel)**

• Wrote and implemented **unit test cases** with **Jasmine** to test the connection between system and **MongoDB**.

• Used Toucan build-in functions (**MongoChart, HTML, CSS, Cursor**) to create data visualization report demos for potential clients.

(Demo URL: <https://sandbox.toucantoco.com/care-analytics>)

• Configured **Geomap** with **Geo-Json and D3.Js** Technologies. Accessed Json data from Official epidemic website API. built COVID-19 Geo map and displayed on Toucan platform.

• Used **Git** to do the version control and co-worked with other developers.

**Environment:**

React, HTML5, CSS3, JavaScript, MongoDB, MySQL, ODBC, Git, D3.Js, Geo Json, Jasmine, Data visualization.

**Sakura Asian Bistro Worcester, MA 9/2019/9- 2/2020**

**Front-end Developer**

**Projection description:**

This was a project for helping sponsor to develop the website for their Japanese/Chinese style restaurant. I choose React as developing framework, combined the database, JWT, BootStrap technologies to develop the official website. This website can not only let clients to view the products, but also check out online orders.

**Responsibilities:**

• Used **HTML, CSS**, and **Bootstrap** to design the single page’s content, aligned the pictures and contents in a nice look.

• Designed **React components** for menu, comments, orders and feedbacks.

• Configured and used **React-router-dom, navigation** to implement routing to various pages of the application.

• Configured and used **React-dev-tools, Redux-dev-tools** extensions to monitor the state

changes and component re-rendering to reduce errors.

• Implemented the merchant account and payment gateway to realize the online payment function.

• Used **MongoDB API** to record the order records and transaction information.

• Used **GIT** for version controlling and collaboration, **JIRA** for issue tracking and used **Agile**

**/Scrum** methodology for SDLC phases.

**Environments:**

React.Js, HTML5, CSS, JavaScript, Bootstrap4, Git, MongoDB, JIRA

**Town of Shrewsbury, Shrewsbury, MA**  **5/2019-9/2019**

**System analyst/ Programmer Co-op**

This is a summer internship offered by our Town hall. During that time, they are facing two major problems: Rebuild their website to make it more user friendly; Add some features to new billing system, transfer residents’ information from old system into new system.

**Responsibilities:**

Understand clients’ requirements, designed the website **UI modification plan** and report to department manager.

Designed the billing system interface, using **JavaScript** to build a function to automatically calculate the utility with different tiers.

Combined **HTML and CSS** style and **CIVIC PLUS** platform to modify website.

Processed **JSON** format user data in a large scale with low error rate. Used **SQL** to extract target data and transfer to new billing system.

**Environments:**

HTML, CSS, Javascript, SQL, CIVIC PLUS

**WPI-Funding Application System, Worcester, MA 8/2018-4/2019**

**System developer**

This is a project to help WPI funding application office to build a system which can help staff and professors to access funding resources, submit the notice of intent, track the application and communicate with officers. Because the team members have different coding background, we used a low-code platform Mendix to create this system together.

**Responsibilities:**

• Designed a **web-based system** to help program officers and professors to search funding

resources, submit notice of intent, track application and generate report, based on **Agile**

**development methodology**.

• Designed different components and modules, **Used HTML, routing** functions to realize the

interaction with different pages.

• Used **Bootstrap** style framework and encryption module to design the system login page. Designed two different login roles and their write/read permissions: Applicants/ Managers.

• Used **Regular expression** to validate the form of notice of intent.

• Implemented the **Gmail API** and configured the Gmail **HTTP server** to realize the

communication function in the system.

• Communicated with sponsors, Designed the workflow, aligned team workloads, tracked

development process.

• DemoSystem URL: https://mis573f19pgroup3100sandbox.mxapps.io/login.html?profile=Responsive

**Environment**:

Mendix, HTML, CSS, Javascript, Booststrap, API, Agile, Routing, Encryption.

**Health Track Shanghai, China 6/2017-6/2018**

**Jr. Front end developer**

**Project Description:**

This project is about to build a web-based system which can help body builders and office workers to track their health KPIs, record their daily input/ workout volumes and get healthy suggestions based on their BMI. Each user can create their own profile and generate report for healthy analysis purpose.

**Responsibilities:**

* Developed a web-based application based on **React Redux architecture.**
* Used **React Carousel/ slider** to design the slideshow components.
* Designed and beautify pages by implementing **materialize UI** into **JSX**.
* Built modules using React.JS features like **Components, Lifecycle methods**, **unidirectional data flow** and implemented Routing using **react-router-dom.**
* Implemented the Drag and Drop functionality using **React-Draggable**.
* Extensively used **Redux** architecture for application state management.
* Used **Json Web Token** to authorize users and finish the log in/out functions.
* Worked with modules mongooseto interact users’ data with MongoDB.
* Designed **SCSS templates** for reusability and wrote unit test cases using **Jest.**
* Extensively used **git** for version control and pushed the code to **GitHub**.
* Extensively used debugging tools - **Chrome Dev tools** to investigate issues & fix bugs.

**Environment:**

**HTML5, CSS3, JavaScript, Bootstrap, Ajax, React JS, Redux, MongoDB, Jenkins, Git, AXIOS, Restful API, JIRA, and Jest**

**Education:**

**Master of Science in Information Technology, WPI**