

# JESSICA CLAIRE

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## SUMMARY

Diligent software engineer with 5-year experience in software development by using **JavaScript**, **react**, **html5**, **css3**, **mongoDB**, **expressjs**, **redux**, **thunk**, **AWS** and **REST API**.

- I designed a highly responsive users interface using **JavaScript** and **React** and **Bootstrap**.
- Developed back-end server using **Nodejs**, **Express JS** and **JavaScript** to sending and fetching data from **REST API**.
- Developed the render structure of server side using **React Hook** to display the contents and handle states efficiently.
- Implemented **redux** in **React** part to make it easy to dispatch states and improve the connect between components.
- Managed cross-page data and HTTP request with **Redux** and **Axios**.
- Implemented **React-Router** to connect different pages in **React** application.
- Implemented middleware such as **thunk** in **React** application to wraps an expression to delay its evaluation to handle asynchronous request and response.
- Worked on **JSX** to built perspicuous and user-friendly UI.
- Developed complex functions on front-end based on **React.Js**, **Material UI**, and **Ant Design**.
- Created different components in **REST API** using **JavaScript** to implement sorting, searching, and **CRUD** functions.
- Created database of **React** application on **mongoDB** with **mongoose** which can store huge amount of data, ensure customers’ access speed, and make them easier to get the data.
- Developed **React** application with **relational database**, including **MYSQL** and **MariaDB**.
- Proficient in using **NOSQL** database such as **mongoDB** in web application development.
- Implemented web application built with **React** on cloud computing services, such as **AWS** and **Google Cloud** and implemented data storage on **AWS S3** bucket.
- Implemented **Jasmine** testing environment to ensure functionalities of complex components created by **React**.
- Developed dynamic front-end pages using **JavaScript**, **HTML5** and **CSS3** that make these pages appealing, perspicuous and available for various browsers.
- Developed client management platform in **MVC** pattern by using **Python**.
- Implemented **CRUD** functions in python based on **Django**, **Vagrant** and **Virtual Box** frameworks.
- Designed front-end structures by using **REST API** and **API views**.
- I am experienced with data analysis using **Python** and **R**. Developed prediction model by using machine learning with **PyTorch**, **python** and trialed this model with **unit-test**.
- I can manipulate **MAC**, **Unix**, **Windows** and **Linux** efficiently and knowing **data structures** and **algorithms** well.
- I am professional with implement project management tools including **Scrum** and **Jira** to improve the work efficiency.

I am a good communicator and team worker, I can Self-motivated, proactive, and has the ability to thrive in a fast-paced, mission-critical operations environment and communicate with others clearly and precisely(verbally and written) within the **Scrum** framework to meet the sprint objectives.

## EDUCATION AND TRAINING

**Johns Hopkins University**  
Baltimore, MD • 12/2020

**Master of Science:** Geography & Environmental Engineering

**Hohai University**  
Nanjing, China • 06/2019

**Bachelor of Science:**  
Environmental Science & Engineering

## SKILLS

- Programming languages: JavaScript, JSX, Python, C, R, SQL, Ruby, Bash, HTML, CSS, Java, MATLAB, Kotlin etc.
- Database and cloud: MYSQL, MariaDB, mongoDB, AWS
- Project management tools: Scrum, Jira
- Testing tools: Jasmine
- Advanced algorithms and data structures.
- Tools & Frameworks: REACT, Axios, express, redux, thunk, Nodejs, PyCharm, Spyder, Git, Vagrant, Virtual Box, MySQL, Django, Tableau, QGIS, Jupyter Notebook, Atom, PyTorch, unit test, Android Studio etc.
- OS: Mac/ Unix/ Windows/ Linux

## EXPERIENCE

**Two95 International Inc. - UI Developer**

**Arlington, VA • 01/2021 - Current**

Description:

Worked on developing and upgrading Verizon’s customer management system platform to improve the system efficiency in both front-end and back-end to store and manage the information of plan type, plan features, plan perks and payment details of customers.

Responsibilities:

- Built webpage in **JSX** and **HTML5**, implemented function with **JavaScript** based on **ReactJS** and adjusted layout with **CSS3**.
- Designed and developed application architecture before coding, such as defining components hierarchy
- Adopted **React router** to construct a single-page application, which provided users a seamless and user-friendly experience during switching pages.
- Worked on **React hook** using **JavaScript** to manage status of controlled components, such as visibility of some information and accessibility of a button.
- Checked authentication by using **React** lifecycle **hook** and **Redirect** method to prevent unauthorized visiting.
- Utilized **React props** to transfer necessary data from parent component to child component.
- Implemented asynchronous actions in **Redux** by **thunk** as the middleware.
- Managed huge amount of users’ mobile plan data and asynchronous actions such as edit personal information and switch plan(fetching or sending data from or to service) in **Redux**(tested in **Redux DevTools**) to improve the application’s performance and separate data from UI components.
- Utilized **Express.js** router to dealing with different incoming http request.
- Implemented file read/write system in **Node.js** to read and save uploaded members’ avatar or photo in server’s local folder and store the **URL** in database.
- Built member schema and developed database in **NoSQL** database **MongoDB** for fast read/write operation and utilized **Mongoose** to manipulate the database.
- Improved **MongoDB** visiting performance by implemented populate function to avoid repeated database visiting for related information.
- Developed **Node.js** middle layer to enable server-side rendering(SSR) and search engine optimization(SEO).
- Designed backend **REST API** using **Express.js** to allow create, read, update, and delete operations on users’ information management.
- Developed **REST API** based on predefined data structure and tested in **Postman** to provide access to front-end.
- Optimized and improved web application and components with **HTML5**, **CSS3**, with **JavaScript**.
- Developed some front-end functions such as sort and pagination based on UI libraries including **Ant Design**, **Material UI** and **Bootstrap**.
- Used **Git** as source code version control and deployed the **API** to a server on **AWS** to achieve auto-scaling.
- Applied **ESLint** to ensure **JavaScript** code in maintainable and readable way.
- Built **unit-test** for the code developed using **Jasmine**.
- Implemented **Scrum** and **Jira** in project management and improved the work efficiency.
- Kept tracking completed components proactively to provide long-term warranty for components I developed.
- Maintained the company codebase by deleting deprecated code with senior programmers.

**Two95 International Inc. - UI Developer**

**Los Angeles, CA • 07/2020 - 12/2020**

Description:

Worked on developing an online payroll management system that allows employees of ADP customer companies to log in/out, punch in/out, check their weekly working hours, weekly(or bi-week, depends on the employer) payments, payment rate and other information at any time and from everywhere both on computer and on their phone.

Responsibilities:

- Designed log in/out function in **JavaScript** to protect the authorization and private information using **React router** and authorization states.
- Designed employee punch in/out function using **React Hook** to calculate the working time.
- Developed real-time chat room application using **React** and **socket.io** for users to get help from the customer services team.
- Developed http request **API** based on **RESTful API** to provide a fast and efficient path for file upload and download.
- Developed **CRUD** functions using **REST API** to manage the employees’ information for each company.
- Upgraded 20 **REST API** endpoints by adding sorting and pagination through **Spring Data JPA** and reduced latency by 13%
- Developed server-side structure using **Node.js** and **Express.js** to provide support for front-end.
- Implemented middle-layer server side rendering function(SSR) using **JavaScript** and **Node.js**.
- Tested and debugged **API** with **Postman**.
- Developed user side web pages and with **JavaScript**, **HTML5** and **CSS3** which made the web application accessible for multiple types of browsers.
- Implemented user-friendly front-end pagination in **JavaScript** based on simple functions from **Ant Design** library.
- Designed users’ schema and implemented database in **SQL** database **MYSQL**.
- Simplified the records’ structure of the data stored in **MYSQL** database to improve the fetching speed.
- Adopted **Node.js** library **mysql** to manipulate database and store features of each record in database.
- Deployed database on **AWS S3** for accessible management and fast storage.
- Implemented **unit-test** by building **jasmine** environment to ensure the functionalities of the components.
- Adopted **ESLint** to unify the style of coding, increase readability and maintainability of code base, and decrease the possibility of bugs appearance.
- Used **Git** as source code version control and deployed the **API** to a server on **AWS** to achieve auto-scaling.
- Communicated with others clearly and precisely(verbally and written) within the **Scrum** framework to meet the sprint objectives.
- Managed the project development using **Agile**.

**Avanade - Front End Developer**

**Stamford, CT • 02/2017 - 01/2019**

Description:

Worked on developing an online client management system for the company that allowed the clients to sign in, input information and also allowed the client managers (as the administrator) to modify and manage the client information.

Responsibilities:

- Designed and developed a client management application for client profile management using **Python**, **Vagrant**, **Virtual Box**, **Django**, and **Django REST Framework**.
- Effectively implemented server-side **REST APIs**, including user profile service, administrator service, login service, and profile feed service using **Python**, **django**, **django REST framework**.
- Built user-side interface by using **APIViews**, **HTTP5**, and **CSS3**.
- Developed and implemented front-end structure using **Bootstrap** to improve the development efficiency and make the functions easy to maintained.
- Built administrator interface by using **ViewSets** to implement **CRUD** function to the database.
- Used **Git** as source code version control to make it accessible for other people to use.
- Deployed the **API** to a server on **AWS S3** to store online and achieve auto-scaling.
- Implemented relational database on **MYSQL** with open sources and easy to access for various operate systems.