**Jason Yu**

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**SUMMARY**

* Have been doing software engineering for 4 years
* Started with is **Java** and later turned in to **JavaScript full stack** developer.
* Has knowledge on **Python** and **C++**
* Worked on **regular** **expression** and data structure like hash table, tree, and sorting algorithms like bubble sort, quick sort
* Worked on databases like **Oracle** and **MySQL**
* Focused on multi-threaded programming using **Java**
* Studied **JavaScript** and its unique properties like **Hoisting** and **Async**
* Learned integrating UI styling using **CSS**
* Familiar with **SQL** and **NoSQL** database such as **MySQL**, **MongoDB** and its **Mongoose** library
* Experienced working on **MERN** (**MongoDB**, **Express**, **React**, **Node**) stack
* Designed and built backend web server using **Express** that has **Routers** and **RESTAPI**
* Implemented server side **Node.js** to manipulate **MongoDB** cloud data
* Good at **React** reusable components, event handling and **React-Dom** objects
* Built full stack single page web application using **Express**, **MongoDB** and **React**
* Designed complex **Mongoose** database tree and wrote code to perform **Mongoose** **Paginate** as well as searching, sorting directly in the database
* Developed full stack multi-page web application using **Express, MongoDB**, **React** and **Redux**
* Implemented middleware such as **Redux**-**thunk**, **Express** body-parse for projects
* Designed **JavaFX** UI project with **UML** diagram
* Worked on software design patterns such as **Creational**, **Structural** and **Behavioral** **design** **patterns**
* Learned basic concept of artificial intelligence and logic
* Developed **neural** **network** project and performed test using **10**-**fold** **cross** **validation**

**EDUCATION**

**Stony Brook** **University - Stony Brook, New York**

Bachelor of Technology System Management specialized in Computer Science

Minor in Computer Science

**TECHNICAL SKILLS**

**Operation Systems:** Windows (10, 8, 7) • Linux • OSX

**Programming Languages:** Java SE8 • Python 2.7 • C++ • JavaScript (ES5/ES2015) • HTML5 • CSS3

**IDE:** Eclipse, Visual Studio, Visual Studio Code, Net Bean, IntelliJ, PyCharm, XCode

**Database:** MySQL • MongoDB (Mongoose) • Oracle Database, SQL Server

**Library:** JavaFX • React • Redux • Redux-Thunk • Express • NodeJS • Babel • Webpack

**Frameworks:** Material-UI • Bootstrap

**Program Testing Tools:** JUnit4 • Postman • Insomnia • Jest • Enzyme

**Project Management Tool:** Scrum • MS Project

**EXPERIENCE**

**Company Name: Sirius XM Feb 2019 - Present**

**Job Title: Full Stack JavaScript Developer**

**Location: New York, New York**

**Project Description: Subscription Management (Full Stack JavaScript)**

**Design and develop the program that store customer’ information like vehicle information and their subscription packages, duration and payment status. Show the stored information to customer service when needed and give them the ability to modify customer’s data.**

* Designed **Express**.JS backend server that receives **API** calls
* Worked on implementing **MongoDB**, server-side **Express** communication, handling data using **MongoDB** with dynamic **JSON** schemas
* Implement sorting/filtering features and pre-stored user’s sorting/filtering preference in sessions
* Applied express **body**-**parser** as middleware to process Json formatted data between frontend and backend
* Tested **express** server with postman to meet the required **API** call response
* Built React components with **HTML** and **JSX** for frontend UI
* Integrated application styling using **CSS** and **Material**-**UI** framework
* Connected **Redux** states and **React** props to manipulate actions
* Applied **Redux**-**thunk** as middleware to track and ensure each action is executed successfully
* Coordinated **React** with **Express** and **MongoDB** backend and prompts the user for example, when the backend server is disconnected or crashed
* Implemented **React** live search function to search through all products in database simultaneously based on user’s input
* Implement function to give the client ability to modify the data stored in **MongoDB** such as edit and delete
* Optimized application performance with **React** lazy loading and infinite scrolling directly from **MongoDB** database
* Contributed code with team members and manager on **Git** server to ensure the working progress

**Company Name: New York Health+ Hospital Dec 2017 - Jan 2019**

**Job Title: UI Developer**

**Location: New York, New York**

**Project Description:** **DataViLiJ: Data Visualization Application (Java/JavaFX)**

**Design and develop the program that collects data from doctors in a file or input string form and apply required algorithm to it, then output a file and a line graph to make patient’s data visible in an easy to see and easy to analyze way.**

* Collaborated with coworker to generated software design idea using **UML**/sequence diagram
* Connected each function in **UML** diagram and stated relationships between all abstract classes and interfaces
* Integrated required UI styling using **CSS**
* Transferred traditional properties in name value formatted file to **XML** format and stored it in a separate file
* Designed UI template and application template to control the layout of processed the data in the frontend and display it to users
* Built reusable component and frontend libraries
* Applied four algorithms including **classification** and **clustering** to handle data processing in the backend
* Created error handling interfaces to warn the user when the format of input data is not as required
* Implemented **multithreading** into the loading, exit and create new functions to ensure they are isolated and will not interfere with each other
* Tested each function with **JUnit** 4 test to ensure desired output is generated

**Company Name: May 2016 – Oct 2016**

**Job Title: Java Developer (Intern)**

**Location: New York, New York**

**Project Description: E-healthcare Management System**

**Develop web applications for administrations to manage company’s internal healthcare data.**

* Installed, configured and deployed software and provided quality assurance.
* Troubleshooted various software issues using debugging process and coding techniques.
* Implemented classes, interfaces and templates with provided **UML** diagram and use cases
* Provided high-level customer support to remote clients using a supported system.
* Implemented UI that can perform system administration for hosting server and client software.
* Designed and implemented **Oracle** **Database** that suits the multi-user environment of the application.
* Developed backend **JSP** and **Servlet** to enable communication with **Oracle** **Database**.
* Implemented login function as well as backend id, password validation
* Cooperated with frontend team and designed web pages using **Java**, **HTML**, **DHTML**, **CSS**, **JSP** and **JavaScript**.
* Implemented backend data validations and performed **Unit** **Test**.

**Company: PSEG Jan 2015 - June 2015**

**Job Title: Web developer (Intern)**

**Location: Huntington, New York**

**Project Description: Real-time Data Monitoring System**

**Develop program to collect required information from clients’ sites around Long Island and enable program’s ability to communicate with SQL database**

* Developed dynamic pages using **JSP** tags to invoke **Servlets**.
* Designed web page layout using **HTML** and styling using **CSS**
* Implemented Client-Side Authentication and Validation using **JavaScript**
* Developed Business components using **JavaBeans** and **JDBC** interface to communicate with SQL database
* Implemented error handling classes to prevent server crash
* Designed and implemented algorithm to detect and filter out missed or error data and display to specialists before storing it into the database
* Built functions to detect malfunctioned equipment and notify engineers for further investigation
* Designed designated data modeling and wrote various queries using **SQL** and used **SQL** server as the database.