

Wensong Zhang

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EDUCATION

Northwestern University, Master of Science in Computer Science	09/2021 - 12/2022
George Mason University, Bachelor of Science in Computer Science	09/2016 - 07/2020
Chongqing University of Posts and Telecommunications, Bachelor of Engineering in Software Engineering	09/2015 - 07/2020

EXPERIENCE

Software Engineer, MERN Stack | BeaconFire Solution 08/2022 - Current

- Maximized web applications' efficiency by 15% and optimizing web browser performance by removing unnecessary database calls and using **Redux** states for faster load time.
- Used **React Hooks** to implement state in React component and maintain the lifecycle of functional components.
- Working experience with **TypeScript** new features such as block scope, type restriction, decorators, and generics.
- Implemented RESTful back-end web services with security configuration using **Node.js** framework along with **Express.js**.
- Built and maintained the website using **Material UI** as a design system.
- Developed authentication/authorization mechanisms such as **OAuth 2.0** and **JWT**.
- Designed the data schema on **MongoDB** and used **mongoose** for interaction between front-end and MongoDB.
- Utilized **AWS S3** to create and maintain buckets, and configured access policies.

Software Development Engineer Intern | Ehelp Company, Inc. 05/2022 - 07/2022

- Worked on a team to develop and test new features for the company's web application by using **React.js**.
- Collaborated with team members to ensure code quality and adherence to project timelines.
- Gained experience using **Agile** methodologies and version control systems.

Software Engineer, Front-end | Ubisoft 09/2020 - 09/2021

- Developed and implemented front-end solutions for web applications using modern JavaScript frameworks such as **React JS**.
- Used **React Router Dom** to do navigation and redirection to different pages.
- Used **reducers** to receive actions from action creators to update store state in **Redux**.
- Implemented **Responsive Web Design** techniques such as flexible grids and layouts, CSS Media queries.
- Involved in **Agile** based approach to application development.

Tester Intern - Quality Control | Ubisoft 06/2020 - 09/2020

- Perform daily **Smoke Tests** to ensure stability of the build and write clear reports on findings and communicate status to the wider teams.
- Conducted manual and automated testing of applications and reported defects using **JIRA**.
- Work closely with assigned development teams to identify areas to test and construct clear and relevant test cases.

Teaching Assistant | George Mason University 02/2018 - 05/2018

- Work as a teaching assistant for **CS 211 Object-Oriented Programming(Java)** at Computer Science Department, Volgenau School of Engineering for 120 hours in total.
- Assess using varied methods and techniques, give timely feedback to students to aid learning.

PROJECTS

HR Management Web Application 06/2022 - 09/2022

- Used **React.js functional component** for state management to manage the React lifecycle.
- Used **Redux** to control the **states** and fetch asynchronous JSON data.
- Implemented **RESTful back-end web services** with security configuration using **Node.js** framework along with **Express.js**.
- Used **AWS S3** as the cloud storage tool for storing, uploading, and downloading objects such as files, images, etc.
- Designed the data schema on **MongoDB** and used **mongoose** for interaction between front-end and MongoDB.

Web based Photo Sharing and Chatting Application 01/2022 - 04/2022

- Built dynamic and browser compatible pages such as Sign-In/Sign-Up page, Posts Sharing page and Suggestion Page using **HTML, CSS, JavaScript, and React.js**.
- Implemented RESTful back-end with **Node.js** framework.
- Designed the Entity-Relationship Model and the SQL Schema based on **PostgreSQL** database.
- Used **GIT** for source control and branches to **push** and **pull** commits while maintaining the latest up-to-date version of the code without merge conflicts.

SKILLS

Programming Languages: JavaScript, TypeScript, HTML5, CSS3, GraphQL, Python, Java, C, C++, C#, Go, Swift, Kotlin, SQL.

Framework and Library: React.js, Redux, Node.js, Express.js, Next.js, WebSocket, Material UI, jQuery, Bootstrap, Django.

Database: MySQL, MongoDB, AWS, Oracle, PostgreSQL.

Developer Tools: Git, GitHub, JIRA, Postman, npm, Webpack, Babel, VS Code, Visual Studio, Docker.