

Liam Zheng

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SUMMARY

Language: Java, TypeScript, C/C++, JavaScript, Ocaml, Assembly.

Technical Skills: GitHub, Docker, HTML5, DOM, node.js, Vue.js, React.js, Redux, AWS, MySQL, XML, JSON, jQuery, Spring MVC, Spring Boot, Oracle SQL, MySQL.

INDUSTRY EXPERIENCE

React Full-stack developer for E-commerce, Trainee | Mercury Systems | Princeton, NJ Nov 2022 – now

- Implemented a **single-page** web application using **React** and **Redux**, resulting in a more seamless user experience.
- Deployed on **AWS** EC2, S3, and RDS. Streamlined the browsing and purchasing of pet products for users, resulting in increased user conversion rates and sales revenue.
- Implemented user authentication and **authorization** using **Spring** Security to ensure security and privacy protection.
- Utilized **Java** and **Spring** framework as backend technology to connect frontend and backend through **RESTful API**, providing core functionalities such as user registration, login, and product management, improving application stability and performance.
- Utilized **Node.js** and **MongoDB** to store and manage user data, providing efficient data access and query services, supporting application scalability and maintainability.
- Utilized **Postman** for testing backend APIs and **database**, and **Git** for version control and code management, ensuring application correctness and completeness, and improving collaboration efficiency and code maintainability.

Software Engineer, DBA Intern | Minnesota GuoHe International | Edina, MN April 2021 - Sep 2021

- Developed and maintained web and **mobile** applications using technology stacks, **Vue.js** and **React.js**.
- Implemented backend logic using technology stacks such as **Node.js** and **MongoDB**.
- Led the team, conducted code reviews, and **integration** testing to ensure code quality and stability.
- Participated in product planning and requirement analysis, collaborated with team members to drive product development and launch.
- Managed and communicated work progress with the team using tools, **BaseCamp** to ensure collaboration and communication efficiency.

Front-end Engineer Intern | Highline | Des Moines, WA May 2018 - Sep 2019

- Developed an application using **React** to provide users with easy file upload, retrieval, and download functionality.
- Utilized **React Hooks** to manage component **state** and **lifecycle**, simplifying code logic.
- Implemented form validation and error handling to provide user-friendly error alerts and validation feedback.
- Integrated third-party libraries or APIs, such as chart libraries and map libraries, to extend application functionality and enhance data visualization.
- Used virtual DOM mechanism to optimize page rendering performance and minimize unnecessary DOM operations.
- Adopted responsive layouts and employed **CSS** preprocessors like Sass to streamline style management and improve maintainability.
- Utilized development tools and debuggers, **React DevTools** to enhance development efficiency and facilitate code debugging.

RELEVANT PROJECTS

Cisco Forage Software Engineering | InsideSherpa Inc | Remote/ Saint Paul, MN Dec 2021 – May 2022

- Utilized **React components** to implement Sextant Frontend for processing data, including users' public IP and pylon latency information, and creating visual data point components.
- Integrated ipify API to obtain data and make **HTTP** requests, accepting props through components to determine whether it is an IPv4/6 address, and displaying the resulting data to the user.

Drone System Sep 2021 - Dec 2021

- Designed and implemented a search and rescue Drone system, **image processing** with multiple filters and object processing in **C++**, and **motion** trajectory **tracking** for the drone.
- Using **Doxygen** to generate user manuals, and worked on **GitHub** for group assignments and several **debugging** sessions.

EDUCATION

B.S. in Computer Science

University of Minnesota – Twin cities | Minneapolis, MN