**Xinyuan Zheng**

Software Engineer

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**TECHNICAL SKILLS**

**Frontend:** JavaScript, TypeScript, React, HTML5, CSS3, Redux, Context API

**Backend**: Node.js, Express.js, RESTful API, MongoDB, PostgreSQL

**Testing & Tools**: React Testing Library, Jest, Cypress, AWS, Heroku, Netlify, Nginx, NPM, Git, JWT, Postman

**Experienced**: Next.js, Tailwind CSS, Python, Socket.io, Selenium, Bootstrap, Material UI

**PROFESSIONAL EXPERIENCE**

**JPMorgan Chase | Software Engineer |** Columbus, OH12/2023 - 4/2025

* Optimized user experience by implementing full access to spending reports during tax season, leveraging **TypeScript**, **React** and **composable components** to streamline financial insights**.**
* Architected global state management with **React Context API**, enabling efficient cross-component data sharing and eliminating prop drilling.
* Developed and standardized reusable components in the component library, improving cross-team efficiency and ensuring seamless integration via **Storybook documentation**.
* Drove component adoption by integrating the library into the micro-app, reducing redundant development efforts and enhancing scalability across the application.
* Collaborated closely with QA and PM teams to clarify requirements and deliver productin-ready features ahead of schedule.
* Boosted **code quality** and **reliability** by increasing unit test coverage to **80%+**, strengthening functionality and minimizing regression risks.
* Modernized legacy systems by migrating **JavsScript/HTML** code to **TypeScript/React**, restructuring repositories for better maintainability while preserving functionality.
* Enhanced development efficiency by creating local mock data and simulating service calls, ensuring consistent behavior across development, QA and production environments.
* Engineered adaptable UI components by collaborating with engineers to design flexible, customizable features, enabling internal and external reuse through configurable props.
* Enforced high coding standards through rigorous code review, ensuring **best practices** and **maintainable**, **scalable** solutions across the team.

**BeaconFire | Software Engineer |** Remote05**/**2023 - 11/2023

* Built a secure, user-friendly login system using **TypeScript** and **React**, supporting seamless user authentication and protected access.
* Ensured robust user validation with clear error messaging and form handling to improve data integrity and user trust.
* Achieved **80% test coverage** on the login form using **React Testing Library** and **Jest**, enhancing test reliability and maintainability.
* Enhanced system resilience by implementing comprehensive error handling tests, validating user inputs, and ensuring accurate error messages for a smooth user experience.

**SOFTWARE ENGINEERING APPLICATIONS**

**Full Stack Engineer |** Pet Social Media Platform 2022 - 2023

*React, Node/Express, PostgreSQL, Socket.io*

* Built a real-time chat system with **Socket.io** supporting direct and group messaging with instant delivery and live status updates.
* Implemented efficient state management **using React** Hooks and **Redux**, improving app scalability and code clarity.
* Developed **RESTful APIs** with **Node.js/Express** and integrated with **PostgreSQL** for robust data storage and retrieval.

**Back End Engineer |** Scalable API Microservice for Retail Portal 2022 - 2023

*Node/Express, PostgreSQL, k6, AWS EC2, NGINX*

* Scaled system throughput 10x (from ~100 to ~1000 RPS) by horizontally scaling **EC2** instances and configuring **NGINX** load balancing.
* Designed and implemented full back-end system (database, server and REST API) to serve a web portal.
* Reduced query execution time from ~2s to under 50ms by optimizing SQL schema and indexing strategies.
* Conducted extensive performance testing using **k6**, identifying bottlenecks and validating system resilience under load.

**EDUCATION**

Hack Reactor | Computer Software Engineering | 2022

University of Massachusetts Boston | Bachelor’s degree of Computer Science | 2021