Mindy Chen

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Skills

Languages: JavaScript, TypeScript, SQL, Java, C++, C, HTML, CSS
Frameworks/Libraries: React, Vue, Spring Boot, Tailwind, Bootstrap, FeathersJS, Express, Node.js, Chart.js
Technologies: Git, GitHub, Figma, Postman, Linux, Storybook, Jira, Notion

Experience

Full-stack Developer | *CI Technologies*   *September 2024 – December 2024*
- Spearheaded end-to-end development of interactive use-of-force dashboard, empowering communities by leveraging Spring Boot, Microsoft SQL Server, Vue.js, Chart.js, and Figma
- Built 20+ RESTful APIs powered by Spring boot and JPA to efficiently fetch and process data, integrating serialization techniques for seamless communication and data exchange with frontend
- Developed and integrated caching mechanisms for frequently used endpoints to optimize backend performance, reducing backend latency by 30% and minimizing network load
- Implemented advanced data filtering with custom filter configurers by incorporating scalar functions and dynamically building query filters, facilitating granular data refinement
- Led seamless data migration from existing Microsoft SQL Server database, ensuring data integrity and relational consistency through mapped entities and tables
- Created configurable scheduled task to hard-delete obsolete database entries, improving system efficiency with reduced database size and maintaining referential integrity with cascaded deletions

Software Developer Intern | *University Health Network*   *January 2024 – April 2024*
- Engineered and implemented TOTP 2-Factor Authentication with Google Authenticator and Magic Links to enhance application security with secure token generation and validation using FeathersJS
- Implemented automated testing strategies including unit tests and integration tests to verify functionality of client interface, backend processing, and relational database interactions
- Refactored legacy project to convert frontend to TypeScript, reengineering and transitioning 10+ components from class to functional, and migrating outdated packages (Webpack, MUI)
- Maintained and enhanced full-stack solutions for Canada's largest research hospital, supporting patients and clinicians by ensuring optimal functionality through continuous development

Software Developer Intern | *Martinrea International*   *May 2023 – August 2023*
- Architected, refactored, and tested 30+ custom UI components with React, TypeScript, Tailwind, and Bootstrap, prioritizing user-centered development for component customizability and usability
- Collaborated in 6-person team, leveraging Git to coordinate end-to-end development of 15+ pages
- Implemented real-time quality monitoring application for plant floor operations to provide instant quality assessments, improving efficiency and decision-making of operators
- Streamlined interactive component UI testing with Storybook, simplifying code review process

Projects

Taskify | *https://github.com/mindychxn/todo*
- Developed full-stack web app with Postgres, Express, React, and Node.js for organizing daily tasks
- Enhanced application security and user experience by implementing bcrypt.js and JWT for authentication, enabling persistent authentication state management and secure session routing
- Designed RESTful API endpoints with Express to handle CRUD operations for task management

Education

University of Waterloo   *September 2022 - Present*
Candidate for Bachelor of Computer Science (GPA: 3.8)   *Graduating 2027*