Rui Wei

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Skills

Languages: JavaScript, TypeScript, HTML, CSS, Python, SQL, C++
Technologies: React, Next.js, Redux, React Native, Tailwind CSS, Shadcn, Jest, Node.js, Express.js, MySQL

Experience

Frontend Developer, LucensAI.Inc – Remote   April 2024 – Present

- Delivered a React/Next.js math e-learning web application (MathSolver.top) from concept to launch, achieving 1,000+ daily active users within 3 months of release.
- Engineered a Large Language Model (LLM)-powered real-time chatbot using Streams API and WebSocket, reducing latency by 40% and boosting user satisfaction by 25% via dynamic response streaming.
- Built a scalable design system with Tailwind CSS and Shadcn, creating reusable components that reduced development time by 30% while ensuring accessibility compliance.
- Collaborated with backend developers to design 30+ RESTful APIs and integrated them into the frontend using Axios and React Query, enhancing data flow efficiency and application performance.
- Engineered an interactive knowledge visualization interface using D3.js, leveraging hierarchical tree structures to render dynamic "knowledge planets" with zoom and node-dragging, enhancing navigation efficiency by 35%.
- Evaluated the application using Jest for unit tests and Cypress for end-to-end (e2e) tests, achieving a test coverage of 91% and maintaining a bug escape rate of 4%.

Projects

Music School Web Application (Cadd9)   cadd9.cn

- Developed a music school web application using React, enabling course registration, real-time news updates, and student onboarding workflows.
- Engineered a multi-step registration flow using React Hook Form and Context API to centralize state management, enabling dynamic validation and conditional field rendering.
- Integrated Contentful Content Management System (CMS) to streamline content management for admins, reducing time spent on news updates by 30% and eliminating developer dependency for content updates.

Food Ordering Application (Xiao Yu Restaurant)

- Developed a food ordering application for a local restaurant using React/TypeScript, allowing customers to scan QR codes via mobile devices to view menus and place orders.
- Collaborate with UI/UX designers to translate Figma prototypes into a responsive interface, implementing Tailwind CSS for consistent styling and optimizing component reusability.
- Engineered real-time order status updates using Firebase for backend integration and Redux Toolkit for state management, ensuring seamless synchronization between customer orders and kitchen workflows.

Task Management Mobile App   Taskmate

- Developed a full-stack task management app with React Native, TypeScript, Express.js, and MySQL, enabling users to organize, prioritize, and track tasks via an intuitive mobile interface.
- Integrated Natural Language Processing (NLP) using Compromise.js to auto-populate task details from user voice/text input.
- Engineered a RESTful API backend using Express.js and MySQL, architecting relational databases for user authentication and task management, and optimizing query performance through indexing.

Education

Goldsmiths, University of London – BSc in Computer Science (First Class Honours)	December 2024
University of Waterloo –Advanced Web Design and Development Certificate	May 2023
Western University – Master of Professional Education	December 2020