Joey MA

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Skills

- Web Development:React, TypeScript, Tailwind CSS, Redux, Zustand,Tanstack Query.
  Backend experience with Node.js, Next.js, NestJS, ORM interfaces for CRUD operations, Middleware, and distributed microservice architecture.
- Web Frameworks: MedusaJS, NextAuth, WebSocket, GSAP, Aceternity, shadcn UI, Ant Design. Familiar with build tools like Webpack and Vite. Skilled in frontend performance optimization, including code splitting, bundling, and resource management tailored to real business scenarios.
- DevOps: Prisma,PostgreSQL, GraphQL, and Redis. Knowledge of Docker containerization, Kubernetes clusters, caching, load balancing, Sentry.io event logging, and automated testing with Jest. Experienced in CI/CD workflows using GitHub Actions.
- Cloud Platforms: Experienced with Azure and other cloud platforms such as AWS, Google Cloud, Vultr,Alibaba Cloud,

Work Experience

Guangdong   Logistics Co., Ltd. (Feb 2021 - Jul 2024)

- Position: Full-stack Engineer - Engineering & Architecture Team
- Spearheaded the frontend refactoring of an ERP system (infrastructure, redevelopment, and deployment). Addressed legacy architecture complexities, high concurrency, and cross-department integrations in a containerized, disaster-tolerant deployment environment.

Guangzhou   Cross-border Co., Ltd. (Feb 2020 - Feb 2021)

- Position: DevOps & Front-end Developer
- Developed a cross-border e-commerce platform from concept to production.

Projects

ERP/OS/Business-Finance Integration/Inventory and Logistics Management SaaS

Redux   ant-design   Apollo   Cluster

- React + Nest.js + Tailwind CSS / Emotion designed for a multi-device scenario, achieving responsive layouts and mobile adaptations for transport personnel handheld devices, driver smart control systems, and provincial distribution centers, particularly focusing on the inter connectivity of regional franchise outlets and complex RBAC (Role-Based Access Control) needs.

- Utilizing AOP (Aspect-Oriented Programming) through middleware, interceptors, guards, and pipes, along with JWT token role information dynamically assess user permissions maintain access logs, cache management, A state management library encapsulates the UseTable hook and other metadata form structures, enabling the development of components such as map rendering, built-in distance positioning, and truck navigation, which optimized initial render times from 17 seconds to 3 seconds through persistent state data storage.

- employs the React-DAD library for a visual design, allowing rapid construction of business models and grid views with multiple field types real-time rendering previews. facilitates data export and analysis in formats like Excel/CSV, supporting data import, field mapping, and visual UI rule configuration for data validation. Additional features include electronic waybills with watermarking for various business scenarios.

- To address complex data flow issues in legacy systems,utilized GraphQL, integrating multiple microservice APIs into a single unified interface via Apollo Client useQueryuse Mutation useLazyQuery. This approach reduced multiple network requests and optimized data retrieval efficiency. To tackle high concurrency and N+1 query problems, we introduced DataLoader for request batching. The Cluster Module and Redis serve as a message queue cache layer, mitigating issues caused by frequent polling of data query interfaces.

- Real-time communication via WebSocket visualization of vehicle operations, with features like hourglass timing and milestone control to ensure strict timing. Real-time transmission of GPS location, speed, and orientation data supports core vehicle dispatching. A heartbeat reconnection mechanism enhances stability, while optimized dispatch algorithms enable dynamic path planning for efficient loading and optimal driving routes for transporting millions of tons.

- Monitoring and recovery: The system implements Sentry.io for logging and monitoring, capturing exceptions and performance bottlenecks. A Kubernetes-based disaster recovery solution ensures quick restoration during unexpected failures, providing containerization for high availability. CI/CD automation, combined with Jest testing tools, supports unit testing and e2e testing.

AI Prompt-based Business Data Visualization & Analysis

Next.js GSAP prompt Echarts

- Managed the project from inception to deployment, covering both frontend and backend development of a chart platform. This system utilized AI Prompts to generate strategic analysis charts based on input data sets and business analysis requirements, significantly improving the efficiency of data visualization.

- Applied SSR (Server-Side Rendering) in Next.js to enhance initial page load speeds, utilizing React.lazy and Suspense for code splitting and optimization. Memoized functions with UseMemo and improved the user experience through preloading techniques and GSAP-powered animations. Addressed and resolved hydration errors during rendering.

- Implemented virtual scrolling for loading large datasets and encapsulated custom hooks for chart rendering and pop-up detail windows. Integrated RAG (Retrieval-Augmented Generation) to enhance prompt responses when passing data to LLMs by detecting question similarity using vector databases.

Node.js-Based E-commerce Platform with POS Integration

Express.js ORM react-i18next Stripe ChatWoot

- Developed a full-stack Node.js cross-platform integrated shopping (POS) system, employing RESTful APIs and MVC architecture with ORM encapsulating CRUD interfaces. This system incorporates react-qr-scanner for barcode scanning, Express.js for a customized Stripe payment gateway, and WebHook processing for payment status callbacks.
- front end features a user behavior data collection module, utilizing beacon technology to report user actions for in-depth analysis of browsing patterns, customer behavior, and real-time sales trend monitoring. This solution addressed historical discrepancies in multi-device click data (PV, UV) and implemented automatic reporting for tab bar clicks, optimizing data collection processes in scenarios of unexpected app terminations.
- Using react-i18next dynamically load multilingual resources on demand, employing a namespace approach to chunk language files and avoid bulk loading, which is further supported by HMR (Hot Module Replacement) for real-time updates during development.
- Integrated ChatWoot for customer service and ticketing, with preset replies and knowledge base uploads for a custom chatbot that enhanced the conversion rate by providing intelligent automated responses.

Education

South China University of Technology

Degree: Bachelor of Computer Science and Technology

Language : Cantonese,Mandarin,English