MASON JOEY

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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

- Led the overhaul of the ERP system using React, Nest.js, and Tailwind CSS to ensure UI consistency and responsive design across multiple devices, including handheld terminals for logistics personnel and intelligent control systems for drivers. Optimized for connectivity between various branches of the company. State management libraries were used to handle metadata and form structures, and map rendering components for storage state write-back and data persistence. Rendering memory was optimized.

- Implemented a drag-and-drop to create business models and grids with real-time rendering previews. Utilized React Flow to design approval workflows, enabling process node management and permission control based on business logic. Imported data via Excel/CSV with custom field mapping, data validation, and export functionalities, complete with watermark and chop.
- Built microservice architecture with a BFF (Backend For Frontend) layer to solve complex data flow issues in legacy systems. Consolidated multiple API calls into a unified interface using GraphQL and Apollo Client (useQuery, useMutation, useLazyQuery), reducing network requests and optimizing data retrieval. Introduced DataLoader to mitigate N+1 query problems under high concurrency and utilized Cluster Module for multi-process management, with Redis serving as a caching layer for frequent data queries.
- Real-time GPS communication for vehicle tracking was implemented via WebSocket, transmitting essential vehicle data (e.g., position, speed, direction) for dynamic dispatching. Reconstructed the polling mechanism to eliminate lag caused by API polling and added a heartbeat reconnection mechanism for enhanced system stability. Optimized the dispatch algorithm for dynamic route planning, ensuring optimal driving paths under varying load conditions.
- Monitoring and recovery: Integrated Sentry.io for real-time logging of system exceptions and performance bottlenecks. Implemented a Kubernetes-based disaster recovery solution to ensure high system availability and quick recovery from outages. Employed CI/CD pipelines, with automated unit and integration testing facilitated by Jest.

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 (Large Language Models) 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 application for a cross-platform shopping system integrating online and POS functionalities. Employed RESTful APIs and MVC architecture with Sequelize ORM for CRUD operations and integrated QR code scanning with React-qr-scanner for inventory management and checkout.

- Customized the Stripe payment gateway in Express.js, handling payment webhook callbacks and middleware for A/B site redirects. Developed a user behavior tracking module using sendBeacon to report page views, user interactions, and analyze customer behavior in real-time. Monitored key metrics like PV, UV, time spent on page, and conversion rates, alongside HTTP request status codes to detect anomalies and performance issues.
- Incorporated multi-language support with react-i18next, dynamically loading language resources using Namespaces to prevent loading all translations at once. Implemented HMR (Hot Module Replacement) for seamless 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