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Experience

OSLabs | Software Engineer

July 2024 – Present

Next.js, React, TypeScript, Docker, Kubernetes, PostgreSQL, MUI

- Engineered Morpheus, a Next.js Open Source full-stack app with real-time Docker stats and Kubernetes visuals via react-graph-vis; enhanced load times to 1.3 seconds with server-side rendering, streamlining cluster oversight.
- Designed a microservices architecture with Docker Compose, integrating key monitoring tools for optimal performance; deployed custom Docker setups ensuring high availability and reduced env drift using named volumes.
- Developed a real-time monitoring platform with cAdvisor, Prometheus, and Grafana; created precise PromQL metrics and dashboards, slashing resolution time by 60% through proactive resource handling.
- Built a high-efficiency PostgreSQL schema for container metrics, utilizing connection pooling and custom fetch settings; applied AWS Bedrock for query optimization, cutting down on model query redundancy.
- Leveraged AWS Bedrock for predictive analytics, integrated with OpenAI for user queries, resulting in improvement in resource allocation and reducing scaling response time by 10% through proactive, AI-suggested adjustments.
- Adopted TypeScript to bolster code quality, reducing bugs through strong typing and detection in development.
- Strengthened app stability using Jest and Next.js for testing; reached 78% test coverage, decreasing bugs post-launch and speeding up development.
- Upgraded UX with dynamic Recharts and Vis.js visualizations, presenting system metrics and Kubernetes layouts, thus refining system oversight.

Flexport | ICQA & CI Manager

January 2024 – June 2024

SQL, Metabase, Snowflake, VBA Macros, Excel

Phillipsburg, NJ

- Revolutionized warehouse operations through data analytics, developing SQL queries and Metabase dashboards for real-time performance monitoring. Implemented package dimension prediction algorithms, reducing shipping errors by 15% and improving packing time by 30%.

Amazon | Area Manager

May 2023 – December 2023

VBA Macros, Lean six Sigma Yellow Belt

Sacramento, CA

- Led Northwest SME role for Amazon's ADTA system, developing SOPs and refining package sorting; boosted redirect efficiency, achieving 99.85% on-time delivery rate for over 75,000 daily packages.

Projects

NightSky Navigator | React, Redux, Node.js, Express, RESTful APIs, MongoDB

- Optimized Redux state management with Redux Toolkit, decreasing state-related bugs by implementing thunks for async logic; engineered a RESTful API with Node.js/Express featuring Redis-based caching for real-time satellite imagery, enhancing the celestial navigation experience.

Pantry Application | React, Redux, RESTful APIs, MongoDB, Node.js, Express, JWT, , tailwind CSS

- Elevated test coverage to 88% with Jest ensuring system reliability; utilized Tailwind CSS to craft a responsive, adaptive UI that dynamically adjusts for optimal viewing in various light conditions.

Job Finder Application | Google Search API, PostgreSQL, OAuth 2.0

- Leveraged Google Custom Search JSON API integration for real-time job listing aggregation; implemented OAuth 2.0 for token-based authentication, ensuring data integrity and user privacy with encrypted JWTs, streamlining the job search.

LLM Agent TestGen | OpenAI API, NPM package, Microsoft AutoGen

- Developed AutoAgent LLM Test Creator: Authored a Node.js package to automate test generation via CLI, leveraging Microsoft's AutoGen for parallel execution and iterative testing, enhancing developer productivity and code quality.

Technical Skills

Languages: JavaScript, TypeScript, HTML/CSS, Python

Technologies/Frameworks: React, Redux, Next.js, Node.js, Express, scss/sass, Tailwind, PostgreSQL, MongoDB, Docker, Kubernetes, AWS, Cadvisor, Prometheus, Grafana, Webpack, Vite, Jest, Cypress, OAuth, RESTful APIs, Sockets

Education

Rutgers University

Bachelor of Science Business Analytics & Information Technology

New Brunswick, NJ

Public Talks / Publications

Tech Talk: E2E Testing With Cypress

Medium Article: Morpheus Product Launch