Santiago Cravino

Software Engineer | New York, NY

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TECHNICAL SKILLS

Frontend Technologies: JavaScript, TypeScript, React, Next.js, Redux, HTML, CSS, SCSS/SASS, Tailwind CSS, Material-UI, Recharts, Vis.js
Backend and Database Technologies: Node.js, Express, SQL (PostgreSQL), NoSQL (MongoDB, Mongoose), RESTful APIs, WebSockets
DevOps, Cloud, and Development Tools: Docker, Kubernetes, AWS (including AWS Bedrock, IAM, EC2, Elastic Beanstalk, S3, RDS, VPC, ECR), cAdvisor, Prometheus, Grafana, Webpack, Vite, Jest, Cypress, Git, Auth0/OAuth, Agile/Scrum methodologies, CI/CD

EXPERIENCE

Morpheus | Software Engineer | OSLabs | *Docker monitoring, and Kubernetes visualization tool*   **July 2024 - Present**
- Developed a full-stack Next.js application featuring real-time Docker container statistics and interactive Kubernetes cluster visualization using react-graph-vis; leveraged server-side rendering and dynamic imports, resulting in 1.3 seconds average time-to-first-paint and improved cluster management.
- Architected a robust microservices infrastructure using Docker Compose, orchestrating Morpheus, cAdvisor, Node Exporter, Prometheus, Grafana, and PostgreSQL; crafted custom Dockerfiles and health checks for high availability. Leveraged named volumes and network isolation to minimize configuration drift between environments.
- Engineered a real-time monitoring solution integrating cAdvisor, Prometheus, and Grafana; crafted PromQL queries for granular metrics and designed Grafana dashboards with 5-second refresh rates. This system enabled proactive resource management, reducing Mean Time to Resolution by 60% and optimizing container deployment for enhanced reliability.
- Constructed a high-performance PostgreSQL schema for time-series container metrics with connection pooling and configurable fetch intervals; enhanced data retrieval with AWS Bedrock conversation caching, reducing redundant model queries.
- Integrated TypeScript to enforce strong typing, enhancing code reliability and enabling earlier bug detection during development.
- Fortified application reliability with Jest and Next.js Mocking test suites for React components and API endpoints; achieved 78% code coverage, reducing post-deployment bugs and accelerating development.
- Enhanced user experience through Recharts and Vis.js data visualizations, rendering system performance metrics and interactive Kubernetes topology graphs for improved monitoring.

Flexport | ICQA & Continuous Improvement Manager | *Supply chain management, 1PL Logistics*   **2024**
- 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 | Logistics and *Supply chain management*   **2023**
- 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.

OPEN SOURCE

Paint the Night Sky | **Software Engineer** | *Geographical and special information of current user*   **June 2024**
- Streamlined global state management by incorporating Redux with redux toolkit,, implementing a centralized store architecture; mitigated state-related bugs through efficient data flow and predictable state updates across complex components.
- Engineered a RESTful API backend with Node.js and Express.js, incorporating caching for satellite imagery data; devised and deployed a fetch-count-based strategy, reducing database load and improving API response times.

Pantry Application | **Software Engineer** | *multi API recipe generator*   **May 2024**
- Bolstered code quality and functionality by constructing a comprehensive test suite using Jest and SuperTest, achieving 88% code coverage across API endpoints, React components, Redux store, MongoDB integration, and JWT authentication.
- Employed Tailwind CSS for efficient and responsive styling, elevating user experience with intuitive navigation and seamless light/dark mode integration for flexible viewing in various lighting conditions.

JobSmith | Software Engineer | *Curated JobFinding Application and Job Tracker*   **April 2024**
- Integrated Google Custom Search JSON API for job listings retrieval with JWT-based authentication; developed and deployed tokenization for secure session management, mitigating unauthorized access attempts.

EDUCATION

- **Rutgers University |** B.S in Business Analytics & Information Technology

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PUBLIC TALKS & PUBLICATIONS

- E2E Testing & Cypress | Bracklet 2024
- Medium Article on Morpheus product Launch   2024

INTERESTS

- Watching Premier League Soccer, Playing Rugby, Trying to get mile time to a decent half marathon pace. Working on my Jeep Wrangler for Off-roading / all terraining.