Steven Wu

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TECHNICAL SKILLS

Strong: JavaScript(ES6+), TypeScript, React, NextJS, Node.js, Express.js, Redux, SQL, NoSQL, HTML5, CSS, Kubernetes, Docker, Prometheus, Grafana, Jest, Git, RESTful APIs
Experienced: Python, Django, GraphQL, AWS, GCP, SolidJS, Webpack, Prisma, OAuth

EXPERIENCE

KubeHawk (Open Source)   Jan 2023 – Present
Software Engineer

- Developed a visualization tool using D3.js for Kubernetes administrators to visualize complex RBAC data, enabling them to identify potential security risks and vulnerabilities
- Led design process by creating a comprehensive design wireframe and securing team buy-in on specific components
- Leveraged NextJS to improve development and user experience by using its hot-module reloading, code splitting, and server side rendering to deliver a high performance web application with excellent SEO
- Integrated Redis to leverage client caching of sensitive data, resulting in reduce load times for users, decreased database querying, and client management of confidential data
- Implemented TypeScript to enhance type safety and maintainability of frontend components and tests, enabling faster code reviews and improved clarity across the codebase for future open source contributors
- Implemented useContext hook as a lightweight state management solution, enabling centralized state management across components which resulted in a simplified codebase and allowed new features to be rapidly implemented without disrupting state dependencies
- Utilized NextUI to architect and implement a robust collection of reusable and scalable components, expediting onboarding processes and amplifying user experiences in web application
- Deployed Kubernetes clusters on AWS and Google Cloud to test our monitoring tool on multiple cloud platforms, ensuring reliability and versatility
- Worked with an agile engineering team utilizing Scrum workflows, embracing daily standups and sprint retrospectives to foster transparent communication and drive continuous improvement
- Utilized Prometheus to monitor cluster health and performance in real-time using promQL queries, allowing users to receive time-sensitive and detailed metrics of their Kubernetes clusters

PROJECTS

ReciPal | *Webscraping Recipe Database*   2022 - 2023

- Developed Puppeteer scripts to leverage its headless browser and automation abilities to scrape websites for essential instructions and ingredients, allowing users to store any recipe on the internet
- Orchestrated a proxy solution for expansive web scraping operations, delivering a 50% improvement in data acquisition efficiency and enabling seamless bypassing of IP bans
- Configured webpack to effectively bundle, minify and uglify production-ready code for faster compilation and render speeds, to transpile ES6 to ES5 for support in older browsers
- Completed 100% unit test coverage using Jest, enabling easier debugging, refactoring and code extensibility

Collection Capture | *Magic the Gathering Deck Builder*

- Built interactive full-stack application using SolidJs, Prisma, and Express for Magic: The Gathering card management. Delivered responsive UI/UX with search, add, and delete functionality
- Leveraged Express.js and PostgreSQL to build a secure user management system, ensuring data integrity and ACID compliance for user authentication
- Implemented LRUCache to reduce server calls, lowering time to search cached items from 10s to around 100ms
- Optimized Collection Capture's database performance using PostgreSQL and Prisma, resulting in a 25% reduction in database query time

EDUCATION

University of Kansas   Lawrence, KS
Bachelor of Science, Economics