Cameron Kirksey

Software Engineer | Minneapolis, MN

952-693-8051 || cameron_kirksey21@yahoo.com || linkedin.com/in/cameronkirksey || github.com/CameronKirksey21

TECHNICAL SKILLS

JavaScript (ES6+), TypeScript, React, Redux, HTML5, CSS3, XML, JQuery, Node.js, Express.js, REST, MongoDB, PostgreSQL, Docker, Kubernetes, Jest, Supertest, React Testing Library, Webpack, Git, Github, bcrypt, JWTs, OAuth 2.0

EXPERIENCE

KuView by OSLabs || GitHub || *Software Engineer*   **Remote** || 2023 - Present

- Engineered **Prometheus'** built-in integration with Kubernetes to simplify monitoring by fetching cluster-level metrics, and harnessed **Grafana** to design user-friendly, interactive dashboards and dynamic visual representations of Kubernetes cluster metrics.
- Constructed a **Kubernetes** cluster using **Kubectl**, enabling the development and deployment of the containerized application.
- Developed reusable components using **React** in accordance with Flux architecture, leveraging the framework's enhanced modularity, code organization, and state management for seamless user interface development, contributing to a scalable and maintainable codebase.
- Optimized user experience across the Performance and Health Dashboards by integrating components with **React Router**, effectively managing performant rendering for displaying Kubernetes cluster latency, uptime, and error rate graphs within five seconds.
- Elevated application aesthetics through the utilization of **Styled Components** with **SCSS**, modularizing code, and establishing cohesive design patterns across a range of React components, ensuring a unified and dynamic look for diverse pages.
- Orchestrated a high-performance **Node.js** and **Express.js** Data Aggregation Service, leveraging Node's high throughput capabilities to manage consuming cluster health data while supporting multiple services by providing the aggregate data outward.
- Utilized **MongoDB's** flexible and scalable data model for efficient storage and management of data, ensuring seamless retrieval and storage with horizontal scalability and high-performance capabilities.
- Extended the Authentication and Session Persistence Service, utilizing **JWTs** with MongoDB to persist user sessions and using **bcrypt** with salting authentication strategies to encrypt specific user data, enhancing the overall experience and performance.
- Designed a testing strategy, utilizing **Supertest** for server-side validation, **React Testing Library** for UI rendering and interaction testing, and **Jest** framework integration to ensure code functionality, unit tests, and system performance, for codebase maintainability, scalability, readability, and overall system dependability.

US Department of FWLS || *RSX Researcher*   **Green Bay, WI** || 2022 - 2023

- Leveraged **R** programming language to create customized data visualization solutions, generating visually engaging and informative graphs to depict fish population trends derived from survey data, enabling efficient data communication and facilitating data-driven insights for stakeholders.
- Collaborated with biologists to establish strong interdisciplinary teamwork, facilitating the seamless acquisition of data and proficiently analyzing RSX structures within **Survey123**, while also harnessing **ArcGIS** mapping capabilities to deliver geospatial insights for enhanced decision-making processes.

OPEN SOURCE

Task Hero || **GitHub** || *Software Engineer*

- Task organization application for productive work environments.
- Refactored and engineered reusable **React** components for task card creation and display, fortifying maintainability, fostering modularization, and adhering to Flux architecture for efficient one-way data flow.
- Implemented **OAuth** authentication, powered by Auth0, to enhance the security and user experience of the application, enabling secure access for users through various authentication providers while safeguarding sensitive user data.

Tracklication || **GitHub** || *Software Engineer*

- Job application tracker and organizer for job seekers.
- Effectively utilized **PostgreSQL** to seamlessly store and manage extensive job information, leveraging its advanced indexing and querying capabilities for efficient data retrieval, ensuring robust data integrity, and enabling scalability to accommodate a growing volume of job entries.
- Leveraged **Webpack** to minify, uglify, and bundle files for a more performant application, and facilitated the development process by taking advantage of hot reloading with Webpack Dev Server.

PUBLICATIONS / TALKS

Tech Talk (Organization Impacts with leveraging AWS/Cloud tech)

- Delivered an engaging tech talk highlighting the profound significance of AWS and cloud technologies, focusing on their transformative impact on modern businesses in terms of scalability, cost efficiency, and innovation potential.

Medium Article (Visualize With Kuview)

- Authored and published a Medium article titled "Visualize With KuView," introducing the features and advantages of the open-source tool KuView for simplified local Kubernetes metric visualization, highlighting its role in streamlining cluster monitoring through an intuitive interface.

EDUCATION & CERTIFICATIONS

Codesmith *Advanced Residency for Software Engineering*
Minnesota State University, Mankato *Bachelor's Degree in Biological Sciences*
Certifications: Active Security Clearance

INTERESTS

Passionate outdoor enthusiast, enjoying hiking, fishing, and kayaking along the Lake Superior shoreline. Dedicated music connoisseur with diverse tastes spanning Jazz, Reggae, Blues, Hip-Hop, and Alternative Metal. Committed to maintaining a rigorous workout routine for improved health and quality of life.