Tibesigwa Dankan

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I'm a backend engineer skilled in Golang and Node.js, with a passion for full-stack development using modern front-end tools like React, Next.js, and TailwindCSS. I specialize in building scalable, efficient systems and recently created Appcrons, a platform that helps developers maintain uptime for free backend instances on Render.

SKILLS

- Backend Development: Golang, Node.js, Express.js, RESTful APIs, GraphQL
- Frontend Development: React, Next.js, Typescript, Redux, TailwindCSS
- DevOps & Monitoring: Docker, Prometheus, Grafana, CI/CD, Render, Netlify
- Database: PostgreSQL, MongoDB, MySQL
- Testing & Performance: Unit Testing, Integration Testing, Rate Limiting
- Collaboration Tools: Git, GitHub, GitLab, Jira, Trello
- Other Technologies: Serverless Architecture, API Gateway

WORK EXPERIENCE (PROJECTS)

Appcrons - *Platform to Optimize Uptime for Free Backend Instances on Render.com*
https://appcrons.netlify.app

Appcrons helps developers address the issue of server shutdown on Render's free plan due to inactivity by sending automated requests to keep backend instances active. It is currently dispatching over **28,000+** requests daily for more than **100** backend instances.

- Developed the backend in Golang, managing API functionalities including authentication, CRUD operations, and automated request scheduling.
- Integrated rate limiting and monitoring with Prometheus and Grafana for fair resource usage and system health.
- Developed an intuitive and interactive frontend using Next.js, TypeScript, Redux, and TailwindCSS.
- Implemented integration testing for all API endpoints to verify functionality and ensure smooth interactions between components.

Uganda Airlines Invoices - *Invoice Management System*

An invoice management system developed for Uganda Airlines to handle all invoice-related operations across 15 departments. The system sped up financial processes at the Airlines, including tracking, managing, and summarizing invoice data, by over **50%**.

- Owned and implemented the entire frontend using React, JavaScript, and TailwindCSS to build pages, components, and charts.
- Collaborated closely with a designer to create a user-friendly interface and ensure that the design vision was effectively translated into the final product.

GenVisual - *AI Assistant for SickSight Patients*

GenVisual provides AI-driven insights for sickle cell patients, facilitating a smooth user experience through accessible and efficient interaction. I led a front-end team, ensuring the project met its goals and was delivered **2** months ahead of schedule.

- Led a frontend team of three, ensuring all team members worked effectively without blockers.
- Implemented over **60%** of the core frontend features using React and JavaScript, and occasionally fixed critical bugs on the backend.
- Set the groundwork for team members, providing structure and guidance throughout the development lifecycle.

EDUCATION BACKGROUND

- Bachelor's Degree in Computer Science.   **Makerere University** 2021 - 2023