

Tibesigwa Dankan

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I'm a full-stack engineer with a strong focus on the backend, skilled in Golang and Node.js. I'm passionate about leveraging modern front-end tools such as React, Next.js, and TailwindCSS to build comprehensive and user-friendly solutions. I specialize in creating scalable and efficient systems and recently created Appcrons, a platform designed to help 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