Dankan - Backend Engineer & Full-Stack Developer

Expertise: Backend Web API Design (Golang, Node.js), Frontend UI/UX (React, Next.js)

I am a dedicated engineer with a strong foundation in backend development, primarily working with Golang and Node.js. I have a deep passion for full-stack web development and am continually expanding my skills in modern frontend technologies such as React, Next.js, and TailwindCSS. With experience across diverse projects, I focus on building reliable, scalable, and efficient systems. Recently, I created Appcrons, a platform designed to help developers optimize uptime for free backend instances hosted 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: Microservices, Serverless Architecture, API Gateway

Work Exprience/Projects

Appcrons - Platform to Optimize Uptime for Free Backend Instances on Render.com

Website: https://appcrons.netlify.app

Summary:

Appcrons helps developers mitigate 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.

Key Responsibilities:

- Built the backend in Golang to manage API functionality, authentication, CRUD operations, and automated request scheduling.

- Integrated rate limiting to ensure fair use of resources, as well as monitoring tools like Prometheus and Grafana for observability and stability.

- Developed the frontend using Next.js, TypeScript, Redux, and TailwindCSS.

- Conducted integration testing for all API endpoints to ensure seamless operations.

Uganda Airlines Invoices

Invoice Management System

Summary:

An invoice management system developed for Uganda Airlines to handle all invoice-related operations across 15 departments. This solution ensures smooth financial processes, including tracking, managing, and summarizing invoice data.

Key Responsibilities:

- Implemented the frontend using React, JavaScript, and TailwindCSS.

- Collaborated closely with a designer and a colleague to design and implement all data input functionalities and dashboards for displaying critical invoice summaries.

GenVisual -AI Assistant for SickSight Patients

Summary:

GenVisual provides an AI-driven solution for SickSight patients, facilitating a seamless user experience through accessible and efficient interaction. I led a frontend team, ensuring the project met its goals and was delivered two months ahead of schedule.

Key Responsibilities:

- Led a frontend team of three, including a designer, ensuring all team members worked effectively without blockers.

- Developed 60% of the codebase, implementing core frontend functionality using React and JavaScrip.

- Set the groundwork for team members, providing structure and guidance throughout the development lifecycle.

Education & Certifications

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