



Ayesigwa Ronnie

Full Stack Software Engineer and Lifelong Learner

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Profiles

[TheBoyWhoLivedd](#)

Summary

I'm a fullstack developer, optimist, and life long learner. I create web-based solutions and digital experiences that prioritize accessibility and inclusivity.

Experience

Hitaji Technologies **June 2020 -Present**
Full stack developer Uganda

Designing and developing full stack solutions for various clients, including a crucial material schedule calculator app for the Uganda Revenue Authority VAT unit. Spearheaded the building of multiple solutions for various clients. Focused on delivering high-quality, robust production code, and contributing to collaborative problem-solving, sophisticated design, and quality product.

Turing (Google - Deepmind) **June 2024 - present**
Node/React Engineer

Tested and evaluated Gemini's coding capabilities on open-source repositories to identify implementation gaps, leveraging insights to create RLHF datasets for advanced AI model training. Gained extensive expertise in complex coding structures, like parsers and linters, while contributing to the refinement and reliability of state-of-the-art AI coding models.

Projects

AEOI Portal
Developed and maintained the Uganda Revenue Authority AEOI (Automatic Exchange of Information) Portal, a critical system for international tax information exchange.

- The project aimed to ensure compliance with global tax reporting standards and streamline the submission and management of financial information by local financial institutions.
- Utilized React for front-end development to create a user-friendly interface for financial institutions to submit tax information.
- Developed backend services using Java with Quarkus framework, ensuring high performance and scalability of the portal.
- Containerized applications using Docker to streamline deployment processes and maintain consistent development environments.

Typescript, RSC, ReactJS, Docker, Jakarta EE

Hitaji Save
Designed and developed an AI-powered budget and expense tracking application to help users manage their finances effectively by tracking expenses and setting budgets.

<https://save.hitajitechnologies.com/>

- Integrated an AI agent capable of transforming voice commands and extracting transaction data from receipt images to allow users upload bulk transactions in a single click.
- Utilized React for the front-end to deliver an intuitive and responsive user experience.
- Built robust backend services using Node.js, ensuring seamless processing of AI-driven data and efficient budget tracking functionalities.
- Containerized the application with Docker to simplify deployment and maintain consistent development and production environments.

AI, SaaS, React.JS, Node.JS

Task Management System
Developed an innovative Task Management System to automate and secure the client's compliance division's Risk Management Process,.

- Spearheaded the development of an advanced Task Management System to address challenges in our client's compliance division's initial Risk Management Process (CIP).
- Utilized Next.js, React, TypeScript, and NodeJS to create an innovative system that automated task assignment and tracking.
- Designed functionality to parse and import data from Excel sheets into a MongoDB database, ensuring a seamless transition from the old system.
- Mapped each task as an individual case in the database and dynamically displayed them to station heads based on jurisdiction, enhancing operational efficiency.
- Linked task assignments with employee records to ensure precise allocation.
- Implemented a comprehensive workflow for task status updates, allowing officers to mark tasks as complete or escalate them for approval.
- Streamlined the feedback and review process within the Task Management System.

MongoDB, Node.js, Typescript, Next.js

Hitaji Chat
A cutting-edge AI-driven SaaS platform at Hitaji Technologies for interactive and conversational engagement with documents,

- Developed an innovative SaaS product at Hitaji Technologies focusing on document interaction with AI technology.
- Utilized Next.js, React, NodeJs, and Typescript for a robust front-end, and Edge runtime for efficient streaming.
- Incorporated LangChain, [Pinecone.io](#) as a vector database, and the OpenAI API for word-vector conversions.
- Integrated OpenAI's API, particularly 3.5 turbo, to provide intelligent and context-aware document interactions.
- Implemented a user-friendly system allowing users to log in, use credits to upload PDF documents, and engage in dynamic conversations.
- Utilized Flutterwave for secure and streamlined payment processing.

Typescript, SaaS, NextJS, React, Node.js

Material Schedule Generator
Created an efficient web application for the Uganda Revenue Authority to streamline VAT exemptions and material tracking in construction projects,

- Developed the Material Schedule Application to address the Uganda Revenue Authority's (URA) Deemed VAT Unit's requirements.
- Leveraged technologies such as React, NodeJs, Material-UI, Redux, and others for efficient development.
- Implemented a secure login system with role-based access control.
- Designed a dynamic dashboard for intuitive navigation and real-time project tracking.
- Integrated a schedule creation module allowing users to calculate material needs from Bill of Quantities (BOQ) data.
- Introduced a material application management feature for tracking contractor requests and allocations.
- Implemented admin-exclusive functionalities for project assignment and user management.

React, Redux, MaterialUI, NodeJS

Project Management Solution
• Developed a centralized Project Progress Tracker to address the challenge of using diverse project management tools across our client's different divisions.

- Collaborated on creating a User Requirement Specification (URS) in the client's Business Analysis Division using ClickUp for the planning phase.
- Enabled team leads from each division to input and track phase-specific tasks in the centralized tracker.
- Incorporated Gantt charts into the tracker to provide senior management with a clear, at-a-glance view of project progress and essential details.
- Utilized a technology stack including React, NodeJS, MongoDB, RadixUI, and RTK Query for the development of the centralized Project Progress Tracker.

React, Node.JS, RTK Query, RadixUI

Skills

Web Technologies

●●●●●
HTML5, JavaScript, CSS

Web Frameworks

●●●●●
React, NodeJS, TailwindCSS, NextJS

Tools

●●●●○
Git, Github, Docker

Interests

Swimming

Reading

Languages

Javascript

●●●●●

Python

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Java

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