# Ayesigwa Ronnie

Full Stack Software Engineer and Lifelong Learner

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**Profiles**   ⚙ TheBoyWhoLivedd

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

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**Experience**

**Hitaji Technologies (Part-Time )**                                   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.

**Uganda Revenue Authority**                                         June 2022 - June 2024
Software Engineer                                                               Uganda
🔗 https://ura.go.ug/en/

Design and build dynamic full-stack solutions tailored to supercharge the business operations of the Uganda Revenue Authority! In tandem with a power-team of developers, consistently delivered top-notch, unyielding production code. Always at the forefront of collaborative brainstorming, cutting-edge design, and impeccable product output

**Turing (Google - Deepmind)**                                       July 2024 - Dec 2024
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.

**Elite Software Automation**                                         Jan 2025-Present
Software Design Engineer

Designing and implementing complex, end-to-end digital systems that streamline and scale operational workflows across many industries such as education, auto finance, marketing, and nonprofit organizations

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**Projects**

**AutoFinance360 (BHPH Dealerships)**
Digitized and standardized multi-entity BHPH auto dealership and in-house finance company operations with end-to-end process design across sales, underwriting, inventory, and collections.

- Engineered an end-to-end dealership operations platform that digitized and unified processes across sales, underwriting, inventory management, and collections for a multi-entity organization.
- Developed core workflow automation modules for lead acquisition, underwriting, and contract generation reducing manual data entry and processing time
- Architected a centralized inventory tracking system with real-time audit trails and GPS-based location services, optimizing vehicle-readiness operations (procurement, inspection, repair, distribution) across 6+ locations.
- Reduced early loan defaults by architecting a risk assessment module that flagged mechanical and financial risk factors pre-deal.
- Designed and prototyped a unified vendor management portal to standardize invoice approvals, track mechanic reliability, and validate repair quality.

**FaithOps Member Engagement System**
Architected a suite of modular digital systems to drive engagement and retention for a large, multi-entity organization spanning ministry, education, retail, and events.

- Developed a comprehensive member lifecycle management system, automating visitor registration, onboarding, and transitions (e.g., Child to Youth) using demographic-based triggers and branching logic..
- Designed and implemented over 15 program-specific workflows for diverse operations including daycare, university enrollment, event management, and online subscriptions, standardizing processes across departments.
- Improved operational accountability by engineering automated feedback loops and SOP adherence monitoring into the core platform.
- Engineered a donation and reconciliation workflow, integrating OCR and manual review steps to ensure financial data integrity and streamline discrepancy resolution.

**EduTrack360 (CSE Charter School)**
Led the redesign of operational, academic, and administrative workflows for a multi-division nonprofit charter school.

- Engineered a unified student application and enrollment system featuring admission preference logic, automated lottery handling, and waitlist management triggers.
- Automated the re-enrollment and exit pipelines with progress tracking and parent communication modules, improving retention and administrative efficiency.
- Developed a comprehensive staff hiring and onboarding workflow, which included document management, automated interview scheduling, and offer lifecycle tracking.
- Implemented dynamic budgeting and reimbursement protocols with grant allocation, expenditure tracking, and tiered approval logic, providing real-time budget visibility.
- Built rules-driven systems using decision trees to manage complex, parallel processes such as after-school programs, SPED case management, and facility rentals.

**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

**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

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**Skills**

**Web Technologies**
● ● ● ● ●
HTML5, JavaScript, CSS

**Web Frameworks**
● ● ● ● ●
React, NodeJS, TailwindCSS, NextJS

**Tools**
● ● ● ● ○
Git, Github, Docker

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**Interests**

**Swimming**

**Reading**

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**Languages**

**Javascript**
● ● ● ● ●

**Python**
● ● ● ● ○

**Java**
● ● ● ● ○