

# RYAN GITAU WAWERU

## SENIOR SOFTWARE ENGINEER

### Freelance / Contract Work

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## PROFILE

Innovative and detail-oriented Senior Software Engineer with strong expertise in full-stack development, AI integration, and scalable backend systems. Proven experience delivering robust applications for startups and clients globally. Passionate about solving real-world problems through technology, combining psychological insight, design thinking, and advanced coding practices. Adept in modern web stacks, automation, and cloud deployment.

## WORK EXPERIENCE

### Senior Software Engineer (Freelance / Contract Work) — 2024 - Present

- Lead technical development for multiple startups, focusing on building scalable SaaS platforms and AI-integrated web apps.
- Designed and deployed REST and GraphQL APIs with Node.js, Express, and PostgreSQL.
- Built dashboards, authentication systems, and analytics tools using React, TypeScript, and Firebase.
- Integrated OpenAI models for NLP, chatbots, and financial sentiment analysis.
- Managed CI/CD pipelines using GitHub Actions and deployed to Vercel and Render.

### Backend Engineer - ALX Africa Fellowship — 2023 - 2024

- Participated in backend specialization program emphasizing system design, API scalability, and database optimization.
- Developed cloud-native services using Flask and PostgreSQL.
- Collaborated with teams to architect secure, high-performance microservices.
- Led a mini capstone project automating financial data entry and analytics.

### Full Stack Developer - Tech Startup — 2023 - 2024

- Built and maintained a multi-user platform integrating payment gateways and admin dashboards.
- Created reusable frontend components and implemented state management using React Context API.
- Applied agile practices for sprint planning, version control, and QA testing.
- Enhanced user retention through improved UI/UX performance and engagement metrics.

## **Software Developer Intern – Archangel Interactive — 2022**

- Collaborated on UI/UX design and implemented front-end interfaces using React and Tailwind CSS.
- Conducted software testing, bug fixes, and version control with Git.
- Participated in brainstorming sessions to improve user onboarding experience.
- Contributed to internal tools that streamlined content publishing workflows.

## **EDUCATION**

- Full Stack Software Engineering Certificate – Microverse (2023–2024)
- Software Engineering Certificate – ALX Africa (2022–2023)
- Google AI Essentials – Google / Coursera (2024)
- Firebase Web App Development – Google Codelabs (2023)

## **TECHNICAL SKILLS**

- JavaScript (ES6+), TypeScript, Python, SQL
- React, Next.js, Express.js, Flask, Tailwind CSS
- PostgreSQL, Firebase Firestore, MongoDB
- OpenAI API, NLP, Sentiment Analysis, JSON Processing
- GitHub Actions, Docker, Render, Vercel, Netlify
- Figma, Adobe XD, Canva

## **PROJECT HIGHLIGHTS**

- Wealth Wise – AI-powered finance platform integrating emotional spending insights and budgeting tools.
- Style n Tunes – Fashion-meets-music platform connecting users with artists and designers.
- Washer App – Laundry management system using Phoenix LiveView with Argon2 password hashing.
- Dynamic Quote Generator – DOM-based project using JSON import/export and Web Storage APIs.
- Smart Portfolio Tracker – React + Firebase app visualizing stock and crypto data with Recharts + AI summaries.

## **LANGUAGES**

- English (Fluent)
- Swahili (Fluent)

## REFERENCE

Stephanie Wangui — International Plant Machinery Institute

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