

Juanita Mumbi

Full Stack Developer | Web Applications and AI Integration

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GitHub: [Algo-jtx](https://github.com/Algo-jtx) | github.com/Algo-jtx

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Profile

Full-stack developer and computer science student with Moringa School software engineering training. Builds React interfaces, Python APIs and applications that integrate AI services. Hands-on project experience includes multilingual journaling, runtime-log diagnostics, authentication and database-backed applications.

Technical Skills

Frontend: JavaScript, TypeScript, React, Next.js, HTML, CSS, Tailwind CSS, Vite

Backend and data: Python, Flask, FastAPI, REST APIs, SQLAlchemy, SQLite, Supabase

AI and tools: Hugging Face inference, Google AI integration, Git, GitHub, Postman, Trello

Selected Projects

NEUROLOG

Solo developer | August - September 2026

Next.js, React, TypeScript, Tailwind CSS, Python, FastAPI, Hugging Face

- Built the frontend, backend and AI integration for an application that analyses runtime errors, stack traces and console logs.
- Integrated a Qwen coding model through Hugging Face to request structured diagnoses with likely causes, error details and troubleshooting steps.

GitHub: github.com/Algo-jtx/NEUROLOG

WanderJournal

Solo developer | 5 - 7 September 2026 | Personal hackathon project

React, Vite, Supabase, Google AI

- Built a journaling application with email authentication, topic-based entries, image uploads and public browsing.
- Integrated AI translation so readers can choose a target language while retaining access to the original entry; deployed the application on Vercel.

GitHub: github.com/Algo-jtx/WanderJournal

Live demo: wander-journal-psi.vercel.app/

Project Experience

SoulSpace

Solo developer | Frontend deployed; backend runs locally

React, Redux, Python, Flask, SQLAlchemy, SQLite

- Built a personal wellbeing application with journaling, unsent letters, time capsules and mindfulness features.
- Connected React interfaces to a Flask API and database models for users and written entries.

GitHub: github.com/Algo-jtx/SoulSpace

Wick and Whistle

Group project | Frontend development and project coordination

React, JavaScript, HTML, CSS

- Implemented the favourites functionality for a recipe browsing application.
- Contributed to project management and presented the team project.

GitHub: github.com/Algo-jtx/wick-whistle

Teamwork and Leadership

AgriBloom | Integration Lead and Scrum Master

Moringa capstone team project | July - August 2025

- Coordinated sprint tasks and the project backlog using Trello, and organised the shared GitHub repository and code structure.
- Contributed to backend models and planning the integration of Flask APIs with application workflows.

GitHub: github.com/Algo-jtx/agri-bloom

DispatchAgent | Hackathon Participant

Mount Kenya University | March 2026

- Collaborated on an automated logistics dispatch prototype during a two-day hackathon; designed frontend layouts and wireframes and presented the technical demonstration.

GitHub: github.com/lewis-2000/DispatchAgent

Moringa School | Class Representative

March - July 2025

- Represented student concerns to the technical mentor and coordinated cohort communication, schedule adjustments and makeup sessions.

Education and Training

Mount Kenya University | BSc Computer Science

Expected December 2028

Moringa School | Software Engineering Full Time Certificate

Completed November 2025

CS50 Introduction to Artificial Intelligence with Python

In progress