

# Grace Gathoni Karume

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## Summary

Second-year Math and Computer Science student at JKUAT with hands-on frontend development experience through competitive hackathons. Skilled in building responsive web applications using React, TypeScript, and Tailwind CSS. Seeking a junior frontend developer role to contribute to innovative projects while continuing to grow technical expertise in a collaborative team environment.

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## Skills

**Frontend:** React, TypeScript, JavaScript, Tailwind CSS, Responsive Design

**Tools & Libraries:** Git/GitHub, Figma, Leaflet.js, Chart.js, ShadCN UI, REST APIs

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## Experience

### GreenWells Hackathon – Frontend Developer | 2025

Built a full route optimization web application within a 48-hour sprint, delivering a clean, responsive interface for visualizing optimal delivery paths.

- Developed interactive map system using Leaflet.js and OpenStreetMap API with dynamic route rendering and location markers
- Built entire UI with React, TypeScript, and Tailwind CSS, implementing search functionality and real-time path visualization
- Collaborated with 4-person team using Git/GitHub for rapid iteration and deployment

### Aethra Hackathon – Frontend Developer | 2025

Developed a forest monitoring web platform focused on reforestation tracking and environmental issue detection.

- Integrated Leaflet.js for multi-layer forest mapping displaying healthy regions, problem zones, and regrowth areas
  - Built dynamic charts and stats dashboards using Chart.js for real-time environmental data visualization
  - Designed frontend architecture using React, Tailwind CSS, and TypeScript for scalable component structure
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## Projects

### **Cluck & Co – Poultry E-Commerce Platform**

E-commerce website for browsing and purchasing poultry products with product listings, category filtering, and shopping cart functionality.

**Tech:** React, TypeScript, Tailwind CSS, ShadCN UI

### **AniTrack – Task Management App**

Anime-themed task management application with add, mark, filter, and delete functionality featuring minimalist design.

**Tech:** React, TypeScript, CSS Modules

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## Education

### **BSc. Mathematics & Computer Science | Expected 2027**

Jomo Kenyatta University of Agriculture and Technology (JKUAT), Juja

Relevant Coursework: Data Structures, Algorithms, Object-Oriented Programming, Discrete Mathematics