

# Nakato Musana Zaina

Software Developer

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## Personal statement

In an era defined by unprecedented environmental shifts, the intersection of climate change and technology is a crucial battleground for global sustainability. As a software engineer, Nakato believes that artificial intelligence and data analytics are pivotal tools in this global fight against climate change. Her goal is to exploit the capabilities of these technologies to enhance climate modeling and drive sustainable practices.

## Skills

- Familiarity with using SQL to manage relational databases and manipulate data.
- Experienced in leveraging linear and non-linear data structures like stacks and trees.
- Proficient in building dynamic, component-based user interfaces with React.js.
- Skilled in using Next.JS routing and integrating server-side data for efficient page rendering.
- Skilled in implementing interfaces and abstract classes in Android applications.
- Ability to implement authentication and authorization mechanisms in Django.
- Skilled in building RESTful APIs using Django Rest Framework.
- Knowledgeable in prioritization techniques such as Weighted Scoring and MoSCoW.
- Experienced in Agile Methodologies and Jira for effective project management.
- Solid grasp of using Google Analytics to track user behavior and measure engagement.
- Skilled in designing intuitive user interfaces using Figma and Adobe Illustrator.
- Ability to leverage Git and GitHub for version control and effective collaboration

## Education

**AkiraChix**

**codeHive** - Diploma in Information Technology

February 2024 – Present

## **Relevant Courses**

### **Data and Software Architecture**

- Data Structures(stacks, heaps, and linked lists)
- Pseudocode and Flow charts
- Software Architecture and Design
- SQL & Databases

### **UX Research**

- Utilizing Secondary and Primary Research Methods
- User Experience Research(UXR)
- Analysis and Synthesis of research findings
- Conducting Usability Testing

### **Frontend Web Development**

- HTML and styling using CSS for Visually appealing websites
- DOM Manipulation for dynamic and interactive websites in Javascript
- Deploying static websites on Netlify and GitHub Pages
- Next JS to build scalable server-side application

### **UI/UX Design**

- Adobe Illustrator and Photoshop for graphic design & Figjam for Sketches
- Design Application and Implementation
- Wireframing & Prototyping using Figma
- Design Principles and Elements

### **Product Management**

- Customer Personas Development
- Testing and Validating Prototypes and MVPs
- Product Lifecycle Development
- Product Ceremonies & Agile Principles

### **Frontend mobile development**

- Manipulating Layouts in Code
- RecyclerViews and RecyclerViewAdapter,

- Inputs, Outputs and Constraints
- Problem-solving by decomposition

## **Backend Development**

- Deploying containerized applications.
- Authorization and authentication mechanisms
- REST API CRUD operations
- ORM To simplify database interactions.

## **Projects**

### **Suubi**

An end-to-end SACCO management system built using Javascript for the front end and Python for the back end. It is aimed at solving the lack of transparency in the SACCO management of members' funds by the Managers in rural Rwanda.

[https://drive.google.com/drive/folders/16JKTE67MslvIVbQSlN3Nq8\\_2seB9HOc?usp=drive\\_link](https://drive.google.com/drive/folders/16JKTE67MslvIVbQSlN3Nq8_2seB9HOc?usp=drive_link)

### **Envo-Green:**

A plant project built using HTML, CSS, and JavaScript, leveraging Treffle API to enable users to search for their favorite plants and see botanical names and the plant's descriptions.

[https://github.com/Nakato-Musana-Zaina/akili-plants\\_projects](https://github.com/Nakato-Musana-Zaina/akili-plants_projects)

### **School API Project:**

A Python project built in the Django framework is used to store the students' records, courses, classrooms, teachers, and class periods. An API was built to fetch the students' information from the database.

[https://github.com/Nakato-Musana-Zaina/Python\\_School\\_Project](https://github.com/Nakato-Musana-Zaina/Python_School_Project)

## **Referees**

### **Linda Kamau**

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