



Patricia Ainembabazi

Software Engineer

Contact

- +256 773698766
- patainembabazi@gmail.com
- 16 Korongo road,Karen,Kenya
- [Github Profile](#)
- [LinkedIn Profile](#)

Education

AkiraChix
codeHive - Diploma In Information Technology
February 2024 - Present

Relevant Courses

Frontend Web Development

- Implementing DOM manipulation in Javascript
- React.js as a Javascript framework

Backend Development

- Data flow architecture and design
- Database design and modeling

Data And Software Architecture

- SQL Essentials and Joins for data manipulation.
- Capacity to collect, analyze, and interpret data from various sources.

Machine Learning

- Understanding of core concepts such as supervised and unsupervised learning algorithms.
- Ability to clean and preprocess data for analysis using libraries like Pandas and NumPy.

References

Linda Kamau
Founder and Executive Director, AkiraChix
lkamau@akirachix.com

Hunter Achieng
Software Engineer,
Open Fn
achienghunter@gmail.com

Profile

Cooking is the primary cause of deforestation in Uganda, with over 71% of households using wood as their main fuel source. Recent advancements in clean cooking technologies promise solutions to this issue, aiming to mitigate environmental impact and improve livelihoods. Patricia, a software developer passionate about clean energy, strongly believes in the potential of accessible and sustainable innovations to combat climate change and preserve natural resources. By developing efficient, eco-friendly, and smart technologies, she aims to empower communities to embrace sustainable cooking practices and accelerate the adoption of clean energy solutions.

Skills

- Capacity to collect, analyze, and interpret data from various sources.
- Ability to create insightful reports, charts, and visualizations for effective communication.
- Knowledge of analytical tools to gather insights, make informed decisions, and measure product performance.
- Understanding of the principles of building scalable, fault-tolerant distributed systems to provide uninterrupted services to users.
- Understanding of core concepts such as supervised and unsupervised learning algorithms.
- Ability to clean and preprocess data for analysis using libraries like Pandas and NumPy.
- Experience in building predictive models using frameworks such as Scikit-learn.
- Proficiency in creating structured web pages with HTML, applying advanced styling with CSS, and building dynamic, component-based user interfaces using React.js.
- Competence with version control systems, like Git, to monitor, track, and coordinate changes to the code efficiently.
- Knowledge of hosting frontend applications such as Vercel.
- Understanding of the Django framework for building robust and scalable applications and using built-in Django features to optimize the performance and maintainability of web applications.
- Ability to create insightful reports, charts, and visualizations for effective communication.
- Experience with relational databases, Postgres and MySQL, to organize data for efficient data extraction and retrieval.
- Experience in data structures and algorithms (sorting, recursive, and search algorithms) to optimize system performance.
- Understanding of object-oriented programming concepts across JavaScript, Python, and Kotlin for code reusability.
- Proficient in tasks and feature prioritization using frameworks like MoSCoW ensuring efficient use of resources and timely delivery of valuable product increments.

Projects

Themis
Themis is an end-to-end project dedicated to enhancing the Kenyan judicial system encompassing Research, Design, and utilizing Assembly.ai for real-time transcription, along with Django for the backend and Next.js for the frontend. This integration allows Themis to generate case briefs and facilitate case matching efficiently.
<https://drive.google.com/drive/folders/1VRJvvhOIvibsWiky6b2Ms3xAsAg6NTx1>

MitushConnect
An end-to-end project encompassing Research, Design, Frontend Development using React.Js, Mobile Development using Kotlin, and Backend using Python aimed at bridging the gap between Mitumba traders and recyclers to reduce textile waste in Kenya.
<https://drive.google.com/drive/folders/1M6gJvNzGH6F8qI6T6mQYInxGhe5rmexU>

Crypto mania
Collaborated with a group of 5 on developing a cryptocurrency price tracker using HTML, CSS & Javascript. The tracker integrates Coin-Ranking API to retrieve the latest cryptocurrency data.
<https://github.com/aiane-mbabazi/Cryptocurrency-Project.git>