JUSTUS WAMSWA CHEMIRMIR

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SUMMARY

Worked as a software developer for dynamic start-ups, where I leveraged cutting-edge technologies to drive innovation and stay ahead of the ever-evolving industry trends.

My passion for programming, research, artificial intelligence, and data analysis is grounded in a deep desire to understand and harness the potential of emerging technologies to shape the future.

EDUCATIONAL BACKGROUND

African Leadership College – Pamplemousses, Mauritius   **January 2021– Present**
BSc (Hons) Computing
Relevant Coursework: Communicating for Impact, Entrepreneurial Leadership, Data and Decisions, and Projects.

PROFESSIONAL WORK EXPERIENCE

Software Engineer, Research Assistant   **April 2023 - Present**

Hydrus Labs, Hybrid

- Developed a crowdsourcing platform to help collect 2 million words to be used to model an NLP for Mauritian Creole (a low resourced language). The platform significantly improved data collection and pre-processing: data cleaning reduced from 1 month to 3 - 4 days, and words collected per month averaged 250,000 from 50,000.
- Built an admin dashboard using dc, d3 and crossfilter to allow for integration with the backend and provide real-time insights.
- Enabled manual tagging of collected data into the core system to aid in model training. Implemented micro frontends architecture using module federation by webpack to allow the use of an old text-tagging library which was matching our use-case.
- Integrated the NLP into the core system (crowdsourcing platform) to increase the speed of data collection for future model training.
- Wrote the documentation to ease future amendments and improvements of the system.
- Deployed the system on digitalocean droplets using docker.
- Technologies Used: Frontend - React, Material UI; Backend - Flask, sqlalchemy, MySQL; Devops - Docker

Software Developer   **June 2022 - August 2022**

Global Green Visa, Remote

- Designed and developed the startup's website as an intern, which will aid in pitching the overall idea to the Rwandan Government and relevant stakeholders. The platform allows visitors to discover tourist sites across Rwanda, reflects the need for wildlife conservation, and promotes climate action in accordance with the Paris Accords.
- Technologies Used: Frontend - NextJS, TailwindCSS; Backend - GraphQL, Strapi CMS.

Head of Logistics   **Apr 2021-Apr 2022**

Mbwegze Rides

- Led a team of 4 members in a cab startup that offered cheaper rides for students to improve convenience, and safety.
- Created a dashboard to account for handing over, trips, expenses, and income which helped us reduce losses through forgotten debts and unaccounted trips.

Relationship Officer   **January 2018– August 2018**

Equity Bank Limited – Nairobi, Kenya

- Pushed for reinstatement of our branch's ticketing system, which helped reduce complaints of favoritism and cutting lines in the banking hall.
- Promoted the bank's products in the field as a junior member of the marketing team. This resulted in over 100 new bank accounts.
- Represented the branch in the culture series as a choir member so as to sensitize other employees about the values and purpose of the company. This improved the employees' attitude toward serving customers.

EXTRACURRICULAR ACTIVITIES

Software Engineer/Co-Founder, KUR   **January 2024 - Present**

- Creating a platform that supports local languages to enable a joyous transition to parenthood for first-time parents in Africa.
- Finalists of the Stanford Longevity Design Challenge 2024.
- Technologies in use: Frontend - React, Tailwind CSS; Backend - Node.js, Express, MongoDB; Deployment - Vercel.

National Champion, Huawei   **January 2023**

- Won the Huawei ICT Competition in Mauritius National Finals in the cloud track which comprised cloud services, big data, artificial intelligence, and storage.

Data Analyst/Product Development, AgroPRO   **February 2022 - Present**

- Designing an automated vertical hydroponic farming toolkit that targets to improve yield for 7000+ small-scale farmers in Rwanda by 2023 and creates employment for 2500+ youth by 2024.
- 2nd runners up in the campus competitions.
- Finalists, Hult Prize 2022 Regional Summits in Johannesburg.

Mentor, Hands of Hope – Charity Organization   **May 2020 – August 2022**

- Gave insights on health and education to 15 children aged 9-14 so they could learn from the shared experiences and make informed decisions.
- Drafted a strategy document to articulate the organization's objectives, mission, and vision so as to boost community engagement toward helping the organization meet its goals.

SKILLS

- UI/UX Design
- Microsoft Office Suite
- Integrity
- Attention to detail
- Communication
- Work independently
- Wireframes

- Corporate Awareness
- Research
- Data Collection
- Accuracy
- Timeliness
- Reporting
- Cloud computing

- Leadership
- JAVA, JAVASCRIPT, HTML, CSS, MySQL, REACT, Python, Node
- Web design
- Working in a cross-functional team

INTERESTS

- Volunteer Work
- Mobile/Web Development
- Data Collection & Analysis
- Artificial Intelligence
- Entrepreneurship & Innovation
- Cloud Platforms

LANGUAGES

- English – Fluent
- Kiswahili - Native
- French - Beginner