Isaac Tumwine
Computer Engineer and AI Specialist

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Remera,. Kabeza, Kigali, Rwanda 📍

I am a full-stack Web Application Developer, AI Engineer, and network administrator currently living in Kigali, Rwanda. I have a Bachelor of Computer Engineering from Rwanda, and my primary focus and inspiration for my studies is Artificial intelligence, Machine Learning, Computer Vision and Deep Learning. In my free time, I study human computer interface and the psychology of human computer interaction. I am both driven and self-motivated, and I am constantly experimenting with new technologies and techniques. I am very passionate about AI, and strive to better myself as a developer, and the development community as a whole.

WORK EXPERIENCE

Full stack Developer
Andela
06/2020 - 10/2020
Achievements/Tasks
- Development of softwares individually and participating in teams

Instructor
ESIG Secondary School
02/2017 - 09/2018
Achievements/Tasks
- Planning lessons and activities that facilitate students' acquisition of basic and advanced computer skills
- Instructing in a manner that develops students' confidence in their abilities.
- Observing and managing classroom dynamics.
- Invigilating and grading projects, quizzes, and examinations.
- Tracking and communicating students' advancement throughout the course.
- Ensuring that the computer laboratory remains free from food and drink at all times.
- Downloading important software updates and maintaining hardware.

Tutor and IT officer Assistant
University of Tourism, Technology and Business Studies
09/2018 - 09/2019
Achievements/Tasks
- Install and support LANs, network segments, Internet, and intranet systems.
- Install and maintain network hardware and software.
- Analyze and isolate issues.
- Monitor networks to ensure security and availability to specific users.
- Evaluate and modify system's performance.
- Determine network and system requirements
- Maintain integrity of the network, server deployment, and security.
- Ensure network connectivity throughout a company's LAN/WAN
- Design and deploy networks.
- Maintain network servers such as file servers, VPN gateways, intrusion detection systems.

EDUCATION

Masters Degree in Artificial intelligence
Beijing University of Civil Engineering and Architecture

Bachelor's Degree in Computer Engineering
University of Tourism, Technology and Business Studies
09/2015 - 09/2019

SKILLS

HTML · CSS · JAVASCRIPT · FIREBASE · PYTHON · NETWORKING · MACHINE LEARNING · DEEP LEARNING · COMPUTER VISION

PERSONAL PROJECTS

Portifolio
- Personal Branding

Implementation of constellations
- A constellation is an area on the celestial sphere in which a group of visible stars forms a perceived outline or pattern, typically representing an animal, mythological person or creature, or an inanimate object. The origins of the earliest constellations likely go back to prehistory. This Project show how constellation is represented in javascript.

K-Nearest-Neighbor Implementation
- **K nearest neighbors** is a simple algorithm that stores all available cases and classifies new cases based on a similarity measure (e.g., distance functions). **KNN** has been used in statistical estimation and pattern recognition already in the beginning of 1970's as a non-parametric technique. I implemented it in javascript.

ACHIEVEMENTS

Certificates in CCNA R&S: Routing and Switching Essentials,

Certificate in CCNA R&S: Scaling Networks

Certificate in deep learning and neural Networks

Certificate in Python

LANGUAGES

English
Full Professional Proficiency

Chinese
Limited Working Proficiency

INTERESTS

computer Networks

Software development

Artificial intelligence