

Ignas Kamugisha

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EDUCATION

Case Western Reserve University, Cleveland, OH <i>BS, Computer Engineering and Finance</i> <ul style="list-style-type: none">Relevant Coursework: MicroEconomics, MacroEconomics, Accounting, Economics of Technology, Calculus, Data Structures, Object-Oriented Programming	<i>Aug 2023 - Present</i>
UWC Robert Bosch College, Freiburg, Germany <i>International Baccalaureate Diploma</i>	<i>Aug 2020 - May 2022</i>
Moshi Technical School, Kilimanjaro, Tanzania <i>Vocational Education, Electrical & Electronics Engineering</i>	<i>Jan 2016 - Feb 2020</i>

PROFESSIONAL & LEADERSHIP EXPERIENCES

teKsafari.Org, Tanzania <i>Co-Founder & Executive director</i> <ul style="list-style-type: none">providing educational opportunities to underprivileged youth, planning lessons, tutoring on electronics and programmingUniquely conducts country-wide TechSafari events featuring training, STEM exhibitions, and coding hackathons. secured over \$20,000 in funding, sponsorships, and sales within a year, impacting over 1000 students	<i>May 2022 - Present</i> <i>Seasonal</i>
e3empower-Afica, Tanzania <i>Project Coordinator</i> <ul style="list-style-type: none">Facilitating external partnerships and drafting grant proposals to secure funding for the organization's initiatives, resulting in increased organization's income streamsSupervising STEM projects undertaken by interns, planning appropriate budgets for each project, and procuring necessary technical equipment (leading to the first regional STEM fair).	<i>Jan 2023 - May 2023</i>
Sears think[box]. Cleveland, Ohio <i>Volunteer tour guide</i> <ul style="list-style-type: none">Welcoming and orienting visitors during Open-House toursShowcasing the facility's equipment and projects and providing information on membership and access.	<i>Oct 2023 - Present</i> <i>Part-Time</i>
Summer STEM Institute <i>Research Preparatory Program(Statistical analysis and programming for data science)</i> <ul style="list-style-type: none">Developed fundamental understanding of Python Pandas Library and regression with SciKit-learnCreated a program modeling in bulk the "Environmental Kuznets Curve" for over 100 countries	<i>Jun - August 2021</i> <i>Fellowship</i>

OTHER EXPERIENCES & PROJECTS

DigiCard Technologies, Startup business <i>A contact exchange platform for professionals, complemented with custom NFC cards</i> <ul style="list-style-type: none">Orchestrated a resourceful operation i.e. using Google Sheets as a database; Launched in just two weeks;Secured distribution deals with 2 institutions.	<i>Jun - Sept 2023</i>
Automatic device for high voltage switching <i>Microcontrollers Programming</i> <ul style="list-style-type: none">Utilized an ESP32-based microcontroller for automating high voltage systems in areas with no IoT coverageSuccessfully installed the system in 2 schools and churches	<i>Nov 2019 - May 2021</i>
Independent Research Project <i>Probabilistic estimation of constants, Pi, in relation to computational efficiency</i> <ul style="list-style-type: none">Built models to simulate/visualize the probabilistic nature of constant Pi and Eulers constant (e)	<i>Apr - Aug 2022</i>

AWARDS & HONORS

\$10,000 Davis Peace Prize For establishing a design and innovation center in Tanzania	2024
\$5,000 Morgenthaler-Pavey Competition , for establishing a startup with significant social impact	2024
\$1,500 TechMaster award for best application of technology to address environmental sustainability	2024

SKILLS

Technical	Java, ReactJs, NodeJs, Python, Arduino, RaspBerry Pi
Design	Adobe Illustrator, Canva, Adobe Premiere Pro, L ^A T _E X Typesetting
Languages	English, Swahili