

Bertrand Rusanganwa

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Relevant Links: [LinkedIn](#) | [GitHub](#) | [Mysite](#)

Programming Languages: Python, C++ (Clion), Java, HTML/CSS (IntelliJ IDEA), JavaScript

Frameworks: React, Spring Boot, Spring MVC

EDUCATION

Missouri State University (MSU): Springfield, MO

Bachelor of Science in Computer Science, Minor in Mathematics

Expected Graduation: May 2026

- Dean's List: Fall 2023, Spring 2024
- GPA: 3.3

WORK EXPERIENCE

Missouri State University

August 2023–Present

Resident Assistant- Residence life Department

Springfield, MO

- Successfully coordinated over 35 residents annually through community engagement initiatives.
- Fostered inclusive community with effective communication to boost resident satisfaction.
- Implemented strategic communication strategies to enhance community engagement.

Rwanda Space Agency

May 2023 - July 2023

Student Intern- Frontend Team

Kigali, Rwanda

- Enhanced application performance by refactoring code for a 20% speed increase and collaborated on the Geospatial Data Hub, utilizing Earth Observation data for informed decision-making.
- Worked with the software development team to design and implement features focusing on utilizing space technology for Sustainable Development Goals.
- Ensured coding standards and best practices were followed, contributing to Rwanda's sustainable development efforts

PROJECTS

Banking Simulation Project | [Github Code](#) || (OpenCV, Tensorflow, Keras)

2023

- Calculated intricate statistics and implemented innovative features such as dynamic queue visualization and in-depth line length analysis
- Altered simulation with multi-teller and single-line scenarios for unparalleled comparison of statistics across simulations.
- Final model has high precision, recall, and F1 score, and is lightweight enough to run and predict in real-time

Finance Tracker Bot | [Github Demo](#) | (Flask, React, PostgreSQL, Tensorflow, Keras)

2022

- Training LSTMs on historic intraday data at 1 minute intervals to create an automated stock bot
- Using React and PostgreSQL to develop full-stack application for market simulations and bot trading visualizations

LEADERSHIP/CIVIC ENGAGEMENT

East African Student Association(EASA)

March 2023 - Present

Vice president

Springfield, MO

- Contributed to the development of an internal tool that performs evaluations and comparisons on neural network models to validate and assess their performance for Tesla's full-self driving software
- Led the creation and development of a service to assess if a computer vision models will be deterministic or not
- Added Jaeger tracing to enable comprehensive monitoring of individual service durations, identified performance bottlenecks, and pinpointed areas for optimization (reduced database queries, refactored key components, DevOps)

Student African American Brotherhood(SAAB)

August 2022 - Present

Member of Missouri State SAAB Chapter

Springfield, MO

- Drive active participation in SAAB-sponsored field trips
- Plan and attend personal and professional development activities

SKILLS/ AWARDS/ CERTIFICATES

- Inclusive Excellence Four Year Scholarship: Missouri State University, 2022
- English- Fluent (United States),
- French- Intermediate (France) ,
- Kinyarwanda-Native Language (Rwanda)
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