

# Bertrand Rusanganwa

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**Relevant Links:** [LinkedIn](#) | [GitHub](#) | [My site](#)

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

**Frameworks:** React, Spring Boot, Spring MVC

## EDUCATION

Missouri State University : Springfield, MO

Bachelor of Science in Computer Science, Minor in Mathematics

*Expected Graduation: May 2026*

- Dean's List: Fall 2023, Spring 2024
- GPA: 3.4

## WORK EXPERIENCE

**Missouri State University**

**August 2023 - Present**

*Resident Assistant- Residence life Department*

*Springfield, MO*

- Successfully coordinate over 35 residents annually through community engagement initiatives.
- Foster inclusive community with effective communication to boost resident satisfaction.
- Implement 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.
- Collaborated with cross-functional teams to troubleshoot software-related issues and support application usability.

## PROJECTS

**Banking Simulation Project** | [Github Code](#) | (C++, Priority Queues, Event-Driven Simulation)

**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

**StockVision AI tool** | [Github Demo](#) | (Python, Dash, SVR, Plotly)

**2024**

- Created an interactive app that allows users to view and forecast stock prices using real-time data with easy-to-understand charts
- Designed interactive charts with Plotly, enabling users to explore AI-driven stock predictions and confidence intervals in a dynamic interface
- Applied GridSearchCV to optimize SVR hyperparameters, achieving a highly accurate prediction model for stock closing prices

## LEADERSHIP/CIVIC ENGAGEMENT

**East African Student Association (EASA)**

**March 2023 - Present**

*Vice President*

*Springfield, MO*

- Spearhead fundraising initiatives, working with sponsors and campus organizations to secure resources, doubling the association's operational budget within a semester.
- Act as a liaison between the student body and university administration, advocating for the needs and interests of East African students in leadership meetings.
- Ensure the association operates within the set goals, maintaining a supportive and inclusive environment for all members

**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)