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 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 | (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)   **2022**

- 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)