Gloire Rubambiza

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Education

Grand Valley State University   Grand Rapids, MI   GPA: 3.72

Bachelor of Science, Computer Science

Relevant Coursework:

- Operating System Concepts
- Business Communication
- Structure of Programming Languages
- Computer Organization and Architecture

Relevant Skills

- Java, Python, C, BASH scripting experience
- Amazon EC2 and Google Cloud Platform resource management
- Oracle and Postgres Database Programming
- Fluent in French, Swahili, and English

Research Experience

University of Colorado Boulder SMART Program   June 2017 – August 2017
Title: "Measurement and Statistical Analysis of Submarine Internet Cable Performance"
Mentor: Dr. Dirk Grunwald, Department of Computer Science
Submarine cables handle approximately 95% of inter-continental Internet traffic. This study aims to elucidate the performance of submarine cables through the analysis of metrics such as available bandwidth and packet latency.

Ronald E. McNair Scholars Summer Research Program May 2016 – August 2016
Title: "Improving African Internet Traffic through Maximization of Node Centrality"
Mentor: Dr. Jerry Scripps, School of Computing and Information Systems
For most African nations, a broadband Internet subscription is more than the average per capita yearly income. This study aims to improve the intra-African Internet traffic using strategic link addition algorithms to increase the closeness of a sample network.

Work Experience

Collective Idea   Software Development Intern   August 2016 – December 2016

- Developed a predictive algorithm for the Dead Man's Snitch application based on confidence interval and past log data
- Paired with senior developers on in-house projects such as add.a.lingua

Research Presentations

- **Grand Valley State University Student Scholars Day**   April 2018
  Title: "Measurement and Statistical Analysis of Submarine Internet Cable Performance"
  Type: Poster presentation

- **Michigan AGEP Alliance Fall Conference**   October 2017
  Title: "Measurement and Statistical Analysis of Submarine Internet Cable Performance"
  Type: Poster presentation

- **University of Colorado Boulder Summer Poster Session**   August 2017
  Title: "Measurement and Statistical Analysis of Submarine Internet Cable Performance"
  Type: Poster presentation

- **Leadership Alliance National Symposium**   July 2017
  Title: "Measurement and Statistical Analysis of Submarine Internet Cable Performance"
  Type: Oral presentation

- **Grand Valley State University Student Scholars Day**   April 2017
  Title: "Improving African Internet Traffic through Maximization of Node Centrality"
  Type: Poster presentation

- **Grand Valley State University Student Summer Scholar Showcase**   August 2016
  Title: "Improving African Internet Traffic through Maximization of Node Centrality"
  Type: Poster presentation

- **22nd Annual University at Buffalo Undergraduate Research Conference**   July 2016
  Title: "Improving African Internet Traffic through Maximization of Node Centrality"
  Type: Oral presentation

Honors & Awards

- **Upsilon Pi Epsilon Honor Society**   November 2017
  A recognition of admitted computer science students showing promise of career achievement with optional membership into the ACM.
- **Eric Jon Gillette Memorial Scholarship**   April 2016, April 2017
  Scholarship awarded by Jim and Shirley Menacher in the memory of their son to a promising student pursuing a degree in GVSU's School of Computing and Information Systems.
- **Dean's List Award**   December 2014, May 2016, May 2017, December 2017
  Letter of recognition from the Dean of Students to students having attained an average 3.5 or higher GPA at the completion of a semester.
- **Phi Kappa Phi Freshman Honoree**   April 2015
  A recognition of Freshmen students attaining a 4.0 GPA on their first semesters at GVSU and an invitation to join the Phi Kappa Phi Honor Society at the Junior level.

Memberships

- **Ronald E. McNair Scholars Program**   November 2015 – April 2018
  As part of federally-funded TRiO Programs, the program offers graduate school application help and participation in summer research to undergraduates from under-represented backgrounds in Ph.D. programs.
- **GVSU Computing Club**   September 2014 – April 2018
  The club holds weekly meetings with hosts from the computing industry in Michigan, and sponsors gaming nights for relaxation and coding nights to help lower classmen with projects.
- **Black Male Scholars Initiative**   September 2014 – April 2018
  Through bi-weekly meetings, it serves as a support system for black males in the university community to converse on current issues and discuss ways to improve attraction and retention of black males at the university.

Volunteer Work

- **IEEE Computer Society**   Registration Desk Volunteer   June 2017
  Helped registrants with checking in and answering any questions pertaining to the 47th IEEE/IFIP International Conference on Dependable Systems and Networks.
- **The Immigrant Connection**   Citizenship Class Tutor   January 2017 – March 2017
  - Helped immigrants and refugees familiarize themselves with the citizenship process during lessons on American history and civics
  - Improved the future citizens' confidence through quizzing on American civics and improving English literacy in anticipation for their citizenship test