

RESUME

MARLYNE HAKIZIMANA| DATA SCIENCE MASTER'S| UM ID: # 41662874

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EDUCATION

St. Olaf College, Northfield, MN

Graduation: May 2018

Bachelor of Arts in Physics and Mathematics

- **Relevant Coursework:** Intro to Computer Science, Probability Theory, Linear and Abstract Algebra, Quantum mechanics, Intro to Machine Learning, Real Analysis
- **Awards:** Davis United World College Scholar - awarded for leadership in global engagement

TECHNICAL SKILLS

- **Technical:** Python, R, SQL, Heroku, Flask, Mathematica, Latex, GAP, Labview, Mathcad, Excel
- **Laboratory:** Oscilloscope, circuits, electronics

PROFESSIONAL EXPERIENCE

Data Scientist Mentee, SharpestMinds

February 2019- Present

- Predict employee absenteeism in hours for a courier company using Random Forest and Logistic Regression as classification models in Python.
- Create a web app using Heroku and Flask to predict the click-through rate on an advertisement.

Regulatory Data Specialist Team Lead, Servicing 3M, Pace Analytical Services

February 2019- Present

- Review global chemical regulations, determine their application for various products and effectively communicate with 3M suppliers.
- Responsible for delegating workload to team of Regulatory Data Specialists, including the mass workload for SAP implementation.
- Automate a better workflow process using Python for efficiency and better time management.

Quality Audit Specialist, Prime Therapeutics

June 2018- January 2019

- Performed quality reviews and analyzed errors in order to deliver the highest quality services to Prime's clients.
- Collaborated with QA team members in executing application testing and saved Prime Therapeutics \$500,000 by a 50% improved automation in Excel.

Data Science Consultant Intern, WindLogics

January 2018

- Worked with a team of five on an optimization problem where the goal was to develop a better load forecasting algorithm.
- Applied different load forecasting algorithms such as Random Forest and ARIMA in R-studio to predict seasonality in Battery control.
- Developed a 20% improved ensemble model by combining five algorithms for optimized results and better accuracy.

RESEARCH EXPERIENCE

Student Researcher, Directed Undergraduate Research, St. Olaf College (Advisor: Jill Dietz)

September-December 2017

- Worked with a team of three on a group theory mathematical research involving metacyclic groups and their multiple consequences by formulating and proving new theorems based on our findings.
- Coded using GAP to solve harder simulations that enable a convenient path for proving conjectures.

Research Assistant, Collaborative Undergraduate Research, St. Olaf College (Advisor: Bruce Pell)

May 2017— August 2017

- Created a mathematical model implementing biological mechanism of oncolytic virotherapy to better understand the efficiency of some treatments over others.
 - Applied principles of delay differential equations and derived theorems to support our model.
 - Presented our findings at both Midstates Consortium for Math and Science and NIMBios conferences.
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TEACHING EXPERIENCE

Laboratory Teaching Assistant, St Olaf College, St. Olaf College

September 2015—May 2016

- Supervised 22 students in Physics II along with a Physics Faculty member, ensuring a proper use of lab equipment.
- Coached students and facilitated the learning of theories including magnetic forces, vibrations and sounds.
- Maintained an efficient working environment in the lab through multiple troubleshoots and graded lab reports.

LEADERSHIP/VOLUNTEER EXPERIENCE

Homework Tutor, Hennepin County Library

February 2019—Present

- Assist students in K-12 with homework and help them understand key concepts especially in Math and Physics.

Events Coordinator, St Olaf College

September 2015—May 2016

- Organized annual cultural show (African and Caribbean Night) to educate and engage the campus community to celebrate the cultural heritage of the region.

Science Alliance, St Olaf College

September 2014—May 2018

- Collaborated with five volunteers to develop age appropriate STEM material for students in K-8 classrooms in the Northfield area.

CERTIFICATION

Machine Learning, Coursera

December 2019

LANGUAGE

English (Professional), French (Native), Kirundi (Native), Kiswahili (Basic understanding)