

Muwanguzi Joshua Ssemwanga

Phone: +254717602334

Email: ssemwanga18@gmail.com

LinkedIn: linkedin.com/in/joshua-ssemwanga2001

GitHub: github.com/jssem001

Education

Moringa School

August 2024

Software Engineering Diploma

State University of New York at Plattsburgh

December 2022

BSc Computer Science

Skills

- Programming in JavaScript, Python & SQL
- Data Visualization with Pandas, NumPy
- Spreadsheet Analysis in Google Sheets and MS Excel
- Complex Problem Solving
- Graphic Design in Canva
- Full Stack Programming

Project Work

Moringa School Management System

- Developed an application that allows administrators, students, and instructors to maximize performance in the project development process
- Backend built with Python and Flask. Frontend built with JavaScript. Application deployed with Render and Netlify

Maxed Out Olympics

- Designed a web application that provides up to date news on the Paris 2024 Olympics. Used JavaScript, CSS, and HTML to program the application.
- Incorporated a JSON API to allow users to communicate with the web server. Letting users create, update, delete and read posts.
- Developed a database that stores the news articles as well as the user engagement features (comments, likes)

Oasis Farmers' Market

- E-commerce website designed to be a marketplace for farmers to shop for and sell food and agricultural products.
- Developed and evaluated with Firebase and JavaScript

Nairobi Mini-League CLI

- This project is a command-line application that allows users to access and manage information about their favourite football mini-league.
- Incorporated 15+ CRUD operations related to game, team, stadium, and location management.
- Technologies used: Python and SQL

Sports Performance Analytics Certificate, University of Michigan

- Made use of a variety of techniques to explore, represent and visualize sports data with the use of Pandas and NumPy.
- Investigated and analyzed interesting theories and narratives within major sports leagues around the world.
- Drafted reports on the insights and results from the tested data using Jupyter Notebooks.

Google Data Analytics Certificate

- Utilized SQL & R programming to generate insights from data sets.
- Developed expertise in identifying behavioral trends, forecasting customer behavior & analyzing data
- Applied SQL functions for efficient data cleaning & transformation, enabling improved report generation
- Completed an independent capstone project that explored and analyzed rideshare patterns for a Chicago based company.
- Presented results and recommendations for future implementation of the companies product line leading to increased membership sales.

Work Experience

Graduate Assistant | St. Andrew's School Turi

September 2024 – Present

- Assisted the academic IT department by teaching IGCSE/A-Level IT and Computer Science lessons.
- Coached sprinters in the Athletics (track and field) team for U19 and U15 age groups.
- Provided pastoral care for over sixty students aged 13 to 19.

Sales Consultant | AT&T

May 2023 – December 2023

- Consistently exceeded sales targets by establishing the technical needs of the customer and suggesting appropriate products or services.
- Kept military and first responders informed about new technological products and services.
- Explained complex technical information to customers in a way that is easily understandable.

Data Analyst Volunteer | RND4Impact Inc

April 2023 – May 2023

- Applied statistical analysis to generate reports and visualizations that provided key performance insights
- Trained closely with RND4Impact to develop expertise in machine learning and data science techniques

IT Technician | SUNY Plattsburgh Helpdesk

September 2020 – December 2022

- Facilitated technical support to 200+ professors, ensuring uninterrupted delivery of lectures with high success rate.
- Provided guidance on resolving complex classroom issues over the phone, resulting in a 70% reduction in repeat calls.

Public Relations | National Association of Black Accountants

September 2021 – December 2022

- Increased NABA Plattsburgh's recognition by creating themed posts on Instagram that promoted an annual brunch and included notable students on campus. This led to 100+ followers in three days.

Student Intern | Capital Region BOCES

March 2021 – May 2021

- Compiled & processed data on New York school districts for a comprehensive virtual desktop environment, resulting in over two hundred schools with accurate information.
- Produced a large-scale dataset using Microsoft Excel, cleaned and transformed it for further analysis, achieving 98% accuracy.

Frontend Developer Intern | Dbuntu Data

July 2019 – August 2019

- Created a database that helped agriculturalists keep track of their livestock
- Learned front end programming using JavaScript

Summer Intern | Send A Cow, Uganda

July 2018 – August 2018

- Organized company accounting information using Microsoft Excel
- Digitized paper records from fiscal years 2006 to 2012 into an accessible company database

Volunteering

Content Coordination Executive | Ugandan Support from the Diaspora

Feb 2023 – Feb 2024

- Created social media content with the use of Canva to promote USD's activities with donors and partners.
- Maintained and updated the organization's website and social media channels
- Actively communicated information and answered questions received through USD's website and social channels.

Teaching Assistant | SUNY Plattsburgh

August 2022 – December 2022

- Aided in the instruction of the 'Intro to Programming' course at SUNY Plattsburgh.
- Tutored and graded homework for a class of twenty undergraduate students.
- Advised on in-person lab sessions and held office hours for students.

Team Leader | Turi Leadership Award- St. Andrew's Turi

September 2017 - June 2019

- Participated in leadership seminars and devised a school improvement plan
- Taught Math and English lessons to elementary school students within the Molo, Kenya community
- Participated in the renovation of two classroom buildings at Paul Boit Secondary School in Eldoret Kenya
- Coordinated team building activities during expedition to Paul Boit Secondary School.

Awards

NABA New York Scholarship

June 2022

Selected as one of twelve recipients by Deloitte for the 2022/2023 academic year based on demonstration of good grades, strong leadership, and incredible aptitude.

Global Diversity Award

August 2020

A partial tuition credit awarded to accepted international students at State University of New York at Plattsburgh

Campus Community Award

August 2020

A partial tuition credit awarded to enrolled international students residing on campus at State University of New York at Plattsburgh

IT Subject Award

May 2019

Awarded to the highest scoring A Level student in Information Technology by St. Andrews School Turi.