**MOUSSA IBRAHIM SANOU**

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<https://github.com/moussa-sanou>

<https://moussa-sanou.github.io/MyPortfolio/>

**Education**

**University of St. Thomas – St Paul, MN Expected Graduation May 2022**

**Major:** Master of Science, Software Engineering

**Graduate Certificate** inBusiness Analysis

**Graduate Certificate** inDevOps

**Minnesota State University – Mankato, MN May 2018**

**Major:** Bachelor of Science, Economics

**Internship and Work Experience**

**Bilingual Implementation Consultant – Configuration Specialist Jun 2018 – Sep 2021**

Ceridian – Bloomington, MN

*Software Development & Human Capital Management*

* Develop SQL database scripts and XML transformers for integrations and interfaces.
* Conduct consulting sessions and document customer business requirements using NETSUITE (Oracle).
* Analyze and evaluate customers' business needs and translate them into Ceridian system specifications using HTML base programing language.
* Assist customer and third parties’ partners to access cloud base data-sharing platforms using SaaS understanding.
* Facilitate the collaboration between different teams and provide guidance to associate consultants.
* Implement, manage, and design continuous integration, write and manage SQL Scripts.

**Data Analyst– Risk Management Apr 2017 – Oct 2017**

Bankers Financial Corporation (Van Wagenen)– Eden Prairie, MN

*Mortgage & Loan Services*

* Coordinated data mining and modeling in collaboration with customers’ representative departments to create a chart with insurance coverage protecting clients’ mortgages and loans.
* Collected statistical data, developed a matrix identifying risky behavior with a possible effect on loan and mortgage security.
* Utilized data warehousing programs (VISTA), SQL for data intelligence and data analysis to developed marketing strategies and enhance customers' experience.
* Worked collaboratively with different departments in identifying areas of improvement using metrics performance instruments.
* Relationship agent with the French-Canadian department in translating, modeling data for marketing modeling.
* Worked on complex statistical projects developing linear empirical mathematical models for future market prediction.

**Technical Support Representative – Customer Support Jan 2016 – Aug 2016**

Trimble Company (Peoplenet)– Minnetonka, MN

*Software Development & Big Data Center*

* Collected, analyzed, and displayed data in a manner appealing to a wider audience use.
* Developed mathematical and statistical models (chart, matrix, simple regression) in collecting customer data in regard to the use of software developed and managed by Trimble.
* Partnered with IT on a data accessibility project which consisted of a platform, to enhance the ability for all departments to quickly access troubleshooting steps taken in assistant customers with technical issues faced using our software in the Databank.
* Identified areas of process improvements for project/program delivery and suggest new ideas to allow our department to be more effective and save time.
* Assisted with the development of large/complex strategic business efforts across multiple lines of business.
* Worked with different levels of management to gather business requirements and associated documentation for business model changes, communication, and change management strategies.

**IT Specialist – Technical Services Jan 2015 – May 2018**

Minnesota State University, Mankato, MN

*Education*

* Responsible for technical reports, installation, and maintenance of structured cabling, ethernet, and WIFI management.
* Demonstrated proficiency using multi-media platforms, adaptations, troubleshooting, and networking devices for different buildings of the University.
* Worked closely with customers identifying needs, proposing technical setup schemes in resolving customer-facing problems
* Maintained accurate and readable records of technical problems and attempted solution procedures used.
* Managed and maintained content on our Microsoft Windows desktop sever to allow the flow of information to decision-makers so that they can be aware of all issues in the university and act proactively.
* Developed expertise in the area of data entry, data cleaning, data visualization using MS Excel.

**Undergraduate seminar research – Economics Research Jan 2018 – May 18**

Minnesota State University, Mankato, MN

*Education*

* Developed a linear regression model to analyze the impact of Education on Economic Growth in Sub-Saharan Africa.
* Collected data from 16 countries over 20 years period using the World Bank as my main data source.
* Performed various data cleansing and data transformation techniques such as data imputation, renaming variables, and VLOOKUP using MS Excel to get the data ready for analysis.
* Test the stationarity of the data using the LEVIN-LIN-CHU unit root test to confirm that we had enough evidence to support our alternative hypothesis.
* Created an algorithm using a multiple linear regression model to predict the growth per capita using education, Life expectancy, and growth data using STATA.
* Analyzed, interpreted, and presented the result outputs to an audience of 20 professors from the College of Business and Social and behavioral science departments using scatterplots and various other charts.

**Software Projects**

**Personal Website (My Portfolio)**

* I have designed and developed an interactive and responsive website containing animations created using keyframes, grids, flexbox, and fixed backgrounds.
* The conception of this website has helped me to improve my designing and web development skills.
* Languages Used: HTML/CSS, JavaScript
* View Project Code: <https://github.com/moussa-sanou/MyPortfolio>

**Workout App**

* I have developed a python workout application using Tkinter, a standard python GUI library and, pillow (PIL) python imaging library. This app has a list of store images accessible by the user selection from the displayed menu.
* The development of this application has helped me to enhance my understanding of python interface and image library.
* Languages Used: Python
* View Project Code: <https://github.com/moussa-sanou/workout_app>

**Task Planner**

* I have designed and built a web-based task management application. The interface of this application allows the user to enter an event or task name and a due date. The tasks or events are displayed on a screen with a due date and delete option. The user can only enter a date in the future.
* The learning outcome of this project is the improvement of my JavaScript and jQuery (JavaScript Library) skills.
* Languages Used: HTML/CSS, JavaScript, jQuery
* View Project Code: <https://github.com/moussa-sanou/Task-Planner>

**Account Manager**

* Designed and built a java-based bank teller application, which can process basic banking transactions and generates unique transaction ID.
* The development of this application has helped me in the improvement of my java skills.
* Languages Used: Java
* View Project Code: <https://github.com/moussa-sanou/ATM-App>

**Database Normalization**

* In this project, I have normalized a SQL database. The goal of this project was to structure a survey database by reducing redundancies and improving data integrity.
* Improving my database skills was one of the learning outcomes of this project.
* Languages Used: SQL
* View Project Code: <https://github.com/moussa-sanou/SQL-Database>

**Additional Professional Skills**

* Proficient in Microsoft Office including Excel, Word, PowerPoint, and Outlook.
* Proficient in HTML, Java, C++, Python
* Proficient in SQL, jQuery
* Experience in using ADOBE: Photoshop and video editing.
* Language Skills: French and English