

**MOUSSA IBRAHIM SANOU**  
15233 Galante Lane, Apple Valley, MN, 55124  
(507) 469-2054  
[moussa.sanou@outlook.com](mailto:moussa.sanou@outlook.com)  
<https://github.com/moussa-sanou>  
<https://moussa-sanou.github.io/MyPortfolio/>

## Education

**University of St. Thomas – St Paul, MN**  
**Major:** Master of Science, Software Engineering  
**Graduate Certificate** in Business Analysis  
**Graduate Certificate** in DevOps

**Expected Graduation May 2022**

**Minnesota State University – Mankato, MN**  
**Major:** Bachelor of Science, Economics

**May 2018**

## 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 programming 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 develop 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 server 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.

**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](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 IDs.
- 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 PHP, C++
- Proficient in LiveSQL, GitLab
- Experience in using ADOBE: Photoshop and video editing.
- Language Skills: French and English