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

## Education

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### University of St. Thomas – St Paul, MN

Master of Science, Software Engineering  
Graduate Certificate in DevOps

### Minnesota State University – Mankato, MN

Bachelor of Science, Economics

## Work Experience

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### Software Engineer – Design, Development, Testing

**Nov 2021 – Present**

LinkUp – Minneapolis, MN

*Software Development & Internet Publishing*

- Developed robust and scalable web applications in Java (Spring, SpringBoot, JDBC, Java SE, J2EE) and maintained high-performing backend systems, resulting in a 15% increase in website traffic and conversion rates.
- Designed, developed, and executed 50+ automated test scripts using PHPUnit, JUnit, and Selenium framework, resulting in a 40% reduction in manual testing efforts and ensuring application compliance with diverse requirements.
- Created an automated CI/CD pipeline using GitLab CI/CD, allowing the engineering team to move from a CD model deploying only twice a month to a new model shipping and deploying to production multiple times a week.
- Developed, debugged, and troubleshoot APIs, resulting in a 10% increase in overall API reliability and a 30% reduction in downtime.
- Managed and processed re-engineering project to improve and consolidated end-to-end service processes, restructured communication flow among multiples departments and cutting down paperwork by more than 30%.
- Collaborate with cross-functional teams to optimize application performance and discuss development updates and feedback.

### Bilingual Implementation Consultant – Configuration Specialist

**Jun 2018 – Sep 2021**

Ceridian – Bloomington, MN

*Software Development & Human Capital Management*

- Developed SQL database scripts and XML transformers for integrations and interfaces.
- Conducted consulting sessions and documented customer business requirements using NETSUITE (Oracle).
- Analyzed and evaluated customers' business needs and translated them into Ceridian system specifications using HTML.
- Assisted customer and third parties partners to access cloud base data-sharing platforms using SaaS understanding.
- Facilitated collaboration between different teams and guidance for associate consultants.
- Implemented, managed, designed continuous integration, wrote and managed SQL Scripts.

### 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.
- Worked closely with customers identifying needs and 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, and data visualization using MS Excel.

### 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 customer representative departments to create charts with insurance coverage protecting clients' mortgages and loans.
- Collected statistical data and 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 customer experience.
- Worked collaboratively with different departments in identifying areas of improvement using metrics performance instruments.
- Relationship agent with the French-Canadian department in translating and 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.

## Skills

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### Programming Languages

- Proficient in: Java, PHP, Python, HTML, CSS
- Experience in: SQL, MongoDB, JavaScript, JQuery
- Exposure: C++, C#

### Frameworks & Libraries

- Proficient in: Spring, JUnit, Spring Security, Selenium, Java Collections Framework
- Experience in: Symfony
- Exposure: Django

### Tools & Platforms

- Proficient in: Git, GitHub, GitLab, MySQL Workbench, Oracle
- Experience in: AWS, Google Cloud Service
- Exposure: Docker

## Software Projects

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### Capstone Project, Amazon Web Services (AWS)

- Created a MySQL RDS database instance and cloud9 IDE and imported data into the RDS database using cloud9.
- Created AMI of cloud9 instance and an Application Load Balancer.
- Configured the system parameters in Parameter Store Systems Manager.
- Languages Used: AWS

### 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 design 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 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>