

Masumbuko Alulea

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Sioux Falls, SD 57106

EDUCATION

South Dakota State University, Brookings SD
Bachelor of Science in Computer Science

Expected Graduation: May 2026

RELEVANT COURSES

- Data Structures with Algorithms
- Discrete Mathematics
- Object-Oriented Programming
- Software Engineering
- Software Project Management
- Database Management Systems
- Systems programming
- Computer Architecture
- Digital Logic

SKILLS

- Python, C++, C#, HTML, CSS
- Software Design Patterns
- Agile Methodologies
- Software Testing Concepts
- REST APIs
- SQL
- Django
- FastAPI
- Git & GitHub

PROJECTS AND RESEARCH

Portfolio Website

June 2024 – Current

- Created a portfolio to showcase my design work and skills, enhancing visibility to potential clients
- Integrated interactive elements, enhancing user engagement and improve site navigation for visitors
- Focused on performance optimization and device compatibility, achieving a high page speed across desktop and mobile devices

File Organizer

April 2024 – May 2024

- Designed and developed the application, sorting files into predefined and user-defined categories, organizing over 500 files in under 2 minutes
- Implemented a Tkinter-based GUI, boosting user satisfaction by 18%, measured by feedback from 8 test users
- Introduced a summary report feature that displayed organized files in a user-friendly format, reducing file retrieval time by 21% for all users

Development of a Personalized Mental Support App, SDSU

January 2024 – May 2024

- Researched potential mental health app, showing mood tracking could reduce care delays by 15% for 100+ users
- Found that addressing costs, stigma, and delays increased user willingness to seek help by 20% from 50 participants
- Analyzed data showing personalized recommendations could achieve 76% accuracy in predicting user mood trends

Resume Parsing Script

August 2023 – December 2023

- Engineered an automated Python script that extracted critical data points, including names, emails, phone numbers, education history, and work experience from over 200+ resumes
- Improved the speed of the resume processing system by 12% using Python to make tasks more efficient
- Designed an innovative program in Python leveraging SpaCy for NLP techniques; processed 200+ PDF resumes quickly while extracting key personal information without compromising accuracy or detail integrity during the parsing stage

WORK EXPERIENCE

Frame Maker

Masterbrand, Sioux Falls, SD

May 2024 – Current

- Fabricated and assembled frames with precision, maintaining 94% accuracy to meet high-quality standards
- Operated and maintained machinery and tools, increasing production efficiency within 3 months
- Collaborated with team members, consistently meeting production goals and deadlines, contributing to a 12% increase in overall output

Seasonal Package Handler

FedEx, Sioux Falls, SD

May 2023 – August 2023

- Operated warehouse equipment safely and efficiently, handling 200+ packages daily and reducing processing time by 15%
- Optimized storage space, maintaining 95% accurate inventory for daily deliveries across the facility
- Assisted team members to improve workflow efficiency by 13%, resolving 2+ issues daily to ensure smooth operations

Inventory Stocker

Walmart, Sioux Falls, SD

February 2021 – April 2022

- Stocked shelves and maintained inventory levels, ensuring consistent product availability for customers
- Guided customers in locating items, improving satisfaction by enhancing the shopping experience through personalized guidance
- Collaborated with the team to manage stock and organize store displays, increasing store efficiency and reducing restocking time by 12%

CERTIFICATIONS

Walmart USA Advanced Software Engineering Virtual Experience Program on Forage

July 2024

- Completed the Advanced Software Engineering Job simulation, solving difficult technical projects for a variety of teams at Walmart
- Crafted an optimized heap data structure for Walmart's shipping department, improving efficiency in package sorting and resource use