

# Tshisau 'Joseph' Musangu

mjtshisau@gmail.com | 817.344.8321 | Irving, TX | <https://www.linkedin.com/in/tshisau-musangu/>

---

## WORK EXPERIENCE

### Texas Tech Hospitality Services

Mar. 2025 – Present

*IT Student Assistant*

*Lubbock, TX*

- Installed and configured software applications and hardware devices across campus dining services, reducing setup time by 30%
- Resolved 15+ IT support tickets weekly for 8 dining locations and the Wiggins Complex, maintaining a 95% customer satisfaction rate

### Chick-fil-A, Inc

May. 2025 – Aug. 2025

*Data Engineer Co-op III*

*Atlanta, GA*

- Built an ETL pipeline to transfer query history from Databricks to a web portal, enabling self-service access to usage insights and reducing manual support requests by 20+ hours per month.
- Improved data pipeline uptime to 99.9% by performing proactive maintenance, deploying critical fixes, and resolving 10+ on-call alerts via OpsGenie.
- Piloted internal AI adoption by testing Databricks Genie and deploying a chatbot, increasing AI tool usage by 15%

Aug. 2024 – Dec. 2024

*Software Engineer Co-op II*

*Atlanta, GA*

- Developed a full stack web application for corporate staff 5000+ users to calculate tax implications of multi-state business travel, reducing processing time and ensuring 99.9% compliance with state regulations
- Optimized RESTful API endpoints for efficient data processing, reducing average response time, and implemented comprehensive unit testing with Jest (frontend) and JMock/JUnit (backend), maintaining 90%+ code coverage and minimizing code smells.

Jan. 2024 – Apr. 2024

*Software Engineer Co-op I*

*Atlanta, GA*

- Engineered a React-based internal website mapping technology department structures for 700+ employees, improving organizational clarity and reducing time spent on internal inquiries by 30%
- Designed an AWS-powered invoice automation system using SES and Textract with 85% accuracy, routing invoices via regex and fuzzy matching, and cutting manual processing by 55%.

## EDUCATION

### Texas Tech University

May, 2026

*B.S. Computer Science*

*Lubbock, TX*

- Coursework: Design and Analysis of Algorithms, Data Structures and Algorithms, Computer Organization and Programming, Object Oriented Programming

## PROJECTS

### Vehicle Rental System – Java, React, Google Maps API, Stripe, SQL/NoSQL

- Developed a full-stack rental app with trip planning and fuel-stop recommendations, Stripe payments, and persistent data storage, reducing booking time by 30%

### Warehouse Barcode Scanner – Python

- Created a Python tool for multi-barcode scanning, exporting structured CSVs and improving warehouse inventory accuracy by 20%, saving 5+ hours/week in manual entry.

### Movie Booking System - Python, Django, MongoDB, JWT Auth, Stripe API, Pillow

- Led development of a full-stack movie booking system using Django and React, featuring secure user authentication, QR ticketing and admin authorization controls, handling 100+ concurrent users and increasing online bookings by 25%.

## SKILLS

**Programming Languages:** Python, SQL, TypeScript, JavaScript, Java, C

**Web/Frameworks:** React.js, Next.js, Node.js, Flask, React Native

**Tools/DevOps:** AWS, Docker, Kubernetes, Git, Postman, Jira

## ORGANIZATION

### National Society of Black Engineers (NSBE)

Aug 2022 - Present

Participated in 8 NSBE outreach events, mentoring 25 underrepresented students and contributing to a 20% increase in local STEM program enrollment

### Students of East Africa Social Media Chair @ Texas Tech

June 2025 – Present

Led social media strategy and communications. Coordinated with executive board to align social media campaigns with organizational goals.