

JOSEPH MUSANGU

Irving, TX · mjtshisau@gmail.com · 8173448321 · <https://www.linkedin.com/in/tshisau-musangu/>

PROFESSIONAL EXPERIENCE

Chick-fil-A

Software Engineer Intern

Atlanta, GA

Aug 2024 - Dec 2024

- Developed a web application to calculate tax implications on multi-state business travel.
- Optimized RESTful API endpoints for efficient data processing, maintaining 90% code coverage.
- Performed unit testing using npm Jest for frontend and JMock/JUnit for backend work
- Improved user experience by redesigning frontend components.
- Leveraged Java, Spring Boot, and AWS for robust and scalable application development.

Software Engineer Intern

Jan 2024 - Apr 2024

- Implemented an AWS-based invoice automation system with 85% accuracy using Amazon SES and Textract to extract fields and route invoices to correct accountant using fuzzy matching and regex
- Optimized and developed backend API endpoints using Flask and DynamoDB
- Implemented reusable components and Cypress testing

SMS Infocomm

LCD Repair

Grapevine, TX

June 2022 - Aug 2022

- Conducted transfer and diagnostic procedures on monitors, including inspection to determine problems such as cracked glass, main board issues, and/or LCD issues.
- Disassembled frames from LCD screens and identify damage on the LCD and main board.
- Replaced components on the main board when issues with the LCD were identified.
- Trained new staff members on procedures for diagnosing and repairing monitors.

EDUCATION

Texas Tech University

BS Computer Science & Mathematics *GPA: 3.4*

Lubbock, TX

Dallas Community College District

AS Science *GPA: 3.7*

Irving, TX

SKILLS

| | |
|------------------------|---|
| Programming Languages: | Java, Python, JavaScript, Typescript, C, SQL, HTML/CSS |
| Frameworks: | Pytest, React.js, Spring, Next.js, Node.js, Flask, React Native, JUnit |
| Developer Tools: | AWS, Docker, Kubernetes, Git, Postman, Jira, Redux, Tanstack Query |
| Languages: | English, French, Afrikaans |
| Relevant Coursework: | Data Structures & Algorithms, Object-Oriented Programming, Design of Algorithms |

PROJECTS

Personal Website *React Three Fiber, Three.js, CSS*

Designed and developed a visually engaging 3D interactive website, leveraging advanced web technologies to create an immersive user experience. Implemented dynamic 3D elements and animations to enhance interactivity and user engagement.

CFA Trivia *Python, Flask, React, JavaScript, Typescript, HTML/CSS*

Co-led a team of 10 engineers to design and develop a company-themed trivia game during a hackathon. Designed the application using Flask for the API, DynamoDB for the backend, and React for the frontend, completing the project and delivering a polished presentation at Expo within 10 hours.

Power Consumption Analytics *Python, Jupyter Notebook*

Analyzed power consumption data in Tetuan, Morocco, to develop predictive models based on weather parameters. Collaborated in a team of three to build a program for forecasting power consumption, including visual representations and a user-friendly input interface with uncertainty assessments.

ORGANIZATIONS

National Society of Black Engineers

- Promoted diversity in engineering and inspired underrepresented youth in STEM through active participation in NSBE activities.

Aug 2022 - Present