

# ODON M. MULAMBO

Gaithersburg MD 20877 | +1-269-276-6812 | [mulambom15@gmail.com](mailto:mulambom15@gmail.com) | GitHub: <https://github.com/Mulambo97>

## OBJECTIVE

- seeking a software engineering role at Company to leverage expertise in full-stack development and scalable systems to deliver impactful solutions for global users.

## EDUCATION

Bachelor of Science in Computer Science Engineering

Michigan State University – East Lansing, MI

Aug 2019 – Dec 2023

- Key Coursework: Computer Organization and Architecture, Discrete Structures in Computer Science, Object-Oriented Software Development, Algorithms and Data Structures, Mobile Application Development, Operating Systems, Database Systems.

## SKILLS

- Languages: Python, C++, java, JavaScript, SQL, HTML
- Frameworks & Tools: React, Flask, Node.js, Express.js, AWS (S3, ECR, EC2), Docker, Kubernetes, Pyspark, Apache Airflow/Spark
- Databases: MongoDB, PostgreSQL, MySQL
- DevOps: CI/CD pipelines (GitHub Actions, Jenkins), Linux, Git

## PROJECTS & EXPERIENCE

### ITOT USA

Software Developer – Minneapolis, MN

Jan 2024 – Present

- Designed and deployed a dynamic job posting platform using React, Node.js, and MongoDB.
- Increased user engagement by 30% in 3 months via real-time updates and UI optimization.
- Built scalable data pipelines to integrate multi-source data, improving processing efficiency by 25%.
- Implemented MongoDB for high-performance data management and real-time database interactions, ensuring efficient data flow.

Michigan State University

Software Developer – East Lansing, MI

Sep 2023 – Dec 2023

- Led a team of five in developing a web application for Ally using Agile methodology, enhancing financial literacy for thousands of users through interactive courses.
- Conducted risk analysis, mitigated issues related to data, resulting in a 20% increase in application reliability.
- Developed and managed ETL workflows, transforming raw financial data into structured formats for analytics.
- Leveraged React.js for frontend visualization and Node.js for backend data processing.

Pedestrian Collision Avoidance System

Project Developer – East Lansing, MI

Sep 2023 – Dec 2023

- Engineered a Pedestrian Collision Avoidance System using high-accuracy pedestrian detection algorithms.
- Integrated a Brake-by-Wire system to enable rapid deceleration, reducing collision risk by 95% in simulation tests.
- Utilized Python to process large datasets and integrated real-time feedback pipelines for monitoring.
- Tested the system in 10 diverse scenarios, achieving robust, reliable performance in all cases.

Mobile App Development

Project Developer – East Lansing, MI

Jan 2023 – May 2023

- Developed an Android-based Simon Says game and a Chess game using Java and MySQL, incorporating online multiplayer and secure login functionality.
- Created a live GPS tracking app, rewarding users for walking distances, increasing user activity by 15% in one month.

## ACTIVITIES

Resident Assistant, Akers Hall – East Lansing, MI

Aug 2021 – Dec 2023

- Organized study groups contributing to an average GPA increase of 0.5 among participants.
- Mediated conflicts and connected students to campus resources, creating a positive environment for residents.