

# Jean Pierre Aaron Oyima-Antseleve

Denton, Texas, USA

oyimaaaron@gmail.com — +1 (469) 720-1325

LinkedIn — Website

## Research Interests

---

Federated Learning; Privacy-Preserving Machine Learning; Distributed Optimization; Secure and Robust Learning Systems; Federated Learning for Smart Agriculture and Smart Village Applications.

## Education

---

**University of North Texas**, Denton, TX  
*Master of Science in Computer Engineering*

Jan 2023 – Dec 2024

**University of North Texas**, Denton, TX  
*Bachelor of Science in Computer Engineering*

Aug 2020 – Dec 2022

## Research Experience

---

### Research Intern – NSF-Funded Easy-Med Program

University of North Texas, Denton, TX

June 2022

- Conducted research on sensing, security, and privacy in smart healthcare systems.
- Developed secure IoT-based architectures for real-time patient monitoring.
- Gained experience with distributed data collection under strict privacy and integrity constraints relevant to federated learning environments.

## Professional Experience

---

### IT Consultant

Franceville, Gabon

Dec 2018 – Present

- Designed and deployed secure Linux-based server infrastructures for Wi-Fi and network management.
- Led digital transformation initiatives through cloud integration, automation, and infrastructure optimization.
- Managed Linux application deployments with emphasis on system security, reliability, and scalability.
- Delivered cybersecurity training to staff, improving security awareness and operational best practices.

## Research & Academic Projects

---

### Smart Door – Secure Facial Recognition Access System

*Intel RealSense, Python, AWS IoT, Ansible, MQTT*

- Developed a secure multimodal access control system combining facial recognition and QR-based authentication.

- Implemented edge-device sensing with cloud coordination using AWS IoT and Lambda.
- Configured Raspberry Pi devices as secure gateways for sensor data transmission.

### **Digital School Blackboard System**

*Excel, VBA, SQL*

- Designed an automated academic record management system for assignments and grading.
- Integrated Excel, VBA, and SQL to improve data integrity and reduce manual processing errors.

### **Secure Messaging System**

*Python, Flask, RESTful APIs, Plivo*

- Designed and implemented a secure VoIP and SMS communication platform.
- Built RESTful services supporting encrypted message exchange and real-time delivery notifications.

## **Technical Skills**

---

- **Programming Languages:** Python, C++, Java, SQL
- **Systems & Platforms:** Linux, AWS, RESTful APIs, MQTT, Raspberry Pi, Arduino

## **Honors & Awards**

---

**UNT Senior Design Day – Computer Engineering Award Winner**

May 2022

## **Languages**

---

English (Fluent)

French (Fluent)