

Jean Pierre Aaron Oyima-Antseleve

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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)