

MARK AONDOHEMBA ORTESE

Email  LinkedIn  Website  ORCID 

(Last Updated: January 24, 2026)

EDUCATION

B.Tech. Computer Engineering

Expected June 2026

C. V. Raman Global University, Bhubaneswar, Odisha, India

Technical Skills

Technical Skills: Hardware Design and Embedded Systems, Data Analysis, Computational Modeling, Machine Learning, Programming and Software Development, Cryptography, Printed Circuit Board (PCB) Design

Programming Languages: Java, Python, C, C++

AI & Computer Vision: TensorFlow/Keras, ResNet-50, Deep Neural Networks, OpenCV.

Tools, Databases, and OS: Cisco Packet Tracer, Altium Designer, KiCad, GitHub, Windows Powershell, Linux/Ubuntu, Supabase, VS Code.

ACADEMIC PROJECTS

Secure Password Manager

[\[Link\]](#)

- With Java, I developed a robust desktop security application to manage user credentials using Python and industry-standard encryption protocols.
- Engineered secure data persistence with SQLite and implemented hashing mechanisms to ensure user data integrity and privacy against unauthorized access.

Sentiment Analysis Dashboard

[\[Link\]](#)

- I built an interactive web-based dashboard using Streamlit and Python to perform real-time sentiment analysis on text datasets.
- Integrated NLTK and TextBlob libraries to classify emotional tone and visualized data distributions to support analytical decision-making.

Semantic Book Recommendation System

[\[Link\]](#)

- I designed an NLP-driven recommendation engine utilizing vector embeddings and cosine similarity to suggest literature based on semantic context rather than keyword matching.
- Optimized the recommendation pipeline for high-speed retrieval of relevant book metadata, improving user discovery experience.

Image Encryption and Security Application

[\[Link\]](#)

- I developed a pixel-level image encryption and decryption tool using OpenCV and Python to demonstrate secure visual data transmission techniques.
- Applied custom cryptographic transformations to ensure confidentiality of digital media, aligning with research interests in secure communications.

RESEARCH & PUBLICATIONS

- Cross Domain Intrusion Detection Framework with ML and Pre-Trained DNN-Based Modular Ensemble for IoE Ecosystems

Under Review

- Improving Military Object Detection Under Noisy Conditions Using Spatial Denoising and ResNet-50 Deep Features

Accepted for publication in IEEE Xplore Proceedings — International Conference on Emerging Trends in Advancements and Applications of Computational Intelligence Techniques (ETAACT 2026)

PROFESSIONAL / WORK EXPERIENCE

Computer Engineer and Service Provider, Barnamfel Service Center, Nigeria

Feb 2020 – Nov 2022

- In this role, I provided personalized computer services and technical support to over 80 clients, focusing on improving system performance, reliability, and overall user satisfaction.
- I was also a Network Administrator for more than 12 organizations, where I was responsible for managing network infrastructure, ensuring secure and uninterrupted operations, and resolving connectivity and system-related issues.
- Through regular hardware and software installations, upgrades, and system configurations, I ensured peak system performance and long-term maintainability for both individual and corporate clients.

Data Science Intern, Krutanic Solutions, Bengaluru, India

June 2025 – August 2025

- During my 2 months internship, I applied statistical methods and machine learning algorithms to predictive and classification tasks, gaining practical exposure to feature selection, model training, performance evaluation, and data visualization.
- As part of my Data Science internship, I worked with real-world datasets and gained hands-on experience across the complete data analysis pipeline, including data collection, cleaning, preprocessing, and exploratory data analysis using Python.

ACTIVITIES

Leadership and Volunteering

Oct 2021 - Present

- Established and nurtured a coding community at C.V. Raman Global University to facilitate technical resource sharing and collaborative innovation among students.
- Led alumni engagement initiatives, connecting over 400 students with mentors for professional guidance and career development
- Spearheaded fundraising campaigns that secured scholarships for school children and successfully met all event funding targets.
- Volunteered as a Web Developer for Lemu Orphanage/Charity Foundation, designing and building the organization's official website to support its mission and community outreach.
- Directed high-impact community service activities, including outreach to orphanages and hospitals, to promote social responsibility within the organization.

AWARDS & HONORS

- **Study in India (SII) Scholarship** 2022 – Present
Full scholarship awarded for academic excellence
- **Student Leadership Excellence Award** February 22, 2024
Awarded for exceptional leadership in the University Coding Community
- **Outstanding Open-Source Contributor Award, C.V. Raman Global University** [\[Link\]](#)
Honored for building LEAP-on-web, an open-source learning path generator that uses automated workflows to help students structure technical roadmaps.