

AONDOVER, ORYIMAN PASCAL

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ACADEMIC & RESEARCH PROFILE

I am a candidate with strong analytical skills and motivation. I have a good grasp of Physics concept and have been able to apply advanced mathematical and computational concepts by software engineering, Artificial Intelligence, and machine learning for over five years. I have been able to build my skills in mathematical modeling, optimization, and computational reasoning through the execution of the complex system design of algorithmic trading models, AI-driven simulations, and intelligent autonomous systems. My academic and professional background has been majorly shaped by my interest in the integration of artificial intelligence and machine learning with the aspect of solving real-life problems. I wish to begin with a research on how smart systems and intelligent models employ algorithms, perform at the pinnacle of academic level, and also get more insight into intelligent systems as a scientific and technological tool for innovation.

EDUCATION

- **BSc in Physics**, [Joseph Sarwuan Tarka University](#) | Second Class Lower - CGPA: 2.48/5.0 (55%) 2015-2019
- **Diploma in Data Science** | WorldQuant University | <https://wqu.edu> | Distinction- Final Grade: 83%

RESEARCH EXPERIENCE

Research Assistant

Joseph Sarwuan Tarka University | Jan 2019 – Sep 2019

- Led a collaborative project focused on the modeling of electromagnetic radiation and its effects utilizing thin films.
- Supervised a team of two undergraduate and one postgraduate student in the physics laboratory.
- Assisted in the development of a scientific approach to modeling electromagnetic radiation.
- The supervised project led to the submission of one publication.

TEACHING & MENTORING EXPERIENCE

- Instructed high school students in Computer (Game & Robot Programming), Physics, Chemistry, Further Mathematics, and General Mathematics (2024-2025).
- Mentored two undergraduate and one postgraduate student in daily academic activities and research development (2019-2019).

PUBLICATIONS

- Advancing Theoretical Foundations of Artificial Intelligence through Integrated Intelligent Systems by **Scienxt Journal of Artificial Intelligence and Machine Learning** (SJAML)- Vol 2 | Issue 3 | 2024 | pp 1-32 [\[view\]](#)
- Measurements and Modelling of Volatile Organic Compound (VOC) levels in Students and Urban areas of Makurdi Metropolis by Lambert Academic Publishing - ISBN: 978-620-6-15229-3 [\[view\]](#)
- Robotic Swarms as Emergent Physical Turing Machines: Programming Matter for Universal Problem-Solving by **Scienxt Journal of AI and ML** - ISSN: 2584-1939 (Vol 3 & Issue 3) [\[view\]](#)

TECHNICAL SKILLS

- **Languages:** Python, JavaScript, HTML/HTML5, CSS/CSS3, SQL, C#, C++
- **Backend Frameworks:** FastAPI, Flask
- **Frontend Frameworks & Libraries:** Vanilla JavaScript (ES6+), React, Tkinter/PyQT
- **Databases & Storage:** PostgreSQL (PostGIS), SQLite, Firebase Cloud Storage, SQL
- **DevOps & Tools:** Docker, Kubernetes, Git, GitHub, Linux Command Line, Azure
- **APIs & Protocols:** RESTful APIs, PayStack API, Paypal API, Stripe API, WebRTC, Websockets, JWT
- **AI & Machine Learning:** Pandas, NumPy, Scikit-learn, SciPy, Matplotlib, TensorFlow, Keras, PyTorch, NLTK, LightGBM, XGBoost, ONNX, HuggingFace, OpenAI, Gemini.

APPLIED RESEARCH & ENGINEERING PROJECTS

Volkovoice – AI-Powered Real-Time Russian Dialogue Translator | [GitHub Link](#)

Architected a full-stack, multi-platform ecosystem for real-time translation using a sophisticated AI pipeline with state-of-the-art voice cloning (Coqui XTTSv2), real-time transcription (OpenAI Whisper), and LLM-powered translation (GPT-4).

Development of AI Robotics Game (ADK) | [GitHub Link](#)

A comprehensive AI-driven 3D mobile game that combines immersive gameplay with intelligent robotics applied physics features, enhancing player interaction through advanced AI algorithms.

AI Intelligent System | [GitHub Link](#)

An integrated system designed to simulate human-like decision-making, utilizing machine learning models to analyze data and improve operational efficiency across various applications.

QuantumPay – Full-Stack Global Financial Super-App | [GitHub Link](#) | [See Live](#)

Designed and launched a robust fintech ecosystem with multi-currency wallets, intelligent Pan-African payment routing (Paystack, Interswitch, M-Pesa, Mobile Money), real-time AI fraud detection, offline BLE payments, biometric authentication, merchant POS tools, and WebSocket-powered live chat.

QuantumLeap Trader – Full-Stack Algorithmic Trading Platform | [Github Link](#)

Developed a multi-strategy trading platform with a high-speed backtesting engine, multi-threaded trading bots, ONNX-powered LightGBM signal models, percentage-based risk management, and a full SaaS backend supporting secure payments and user management.

Intellibot – Autonomous Mobile Robot Simulator | [GitHub Link](#)

Developed a self-contained desktop simulator implementing advanced robotics algorithms, including A* pathfinding with path smoothing, dynamic obstacle avoidance, and simulated LIDAR and camera sensors for environmental perception.

DoltMed – Explainable AI (XAI) Medical System

Built a production-grade medical platform featuring an Explainable AI (XAI) risk analysis engine for physicians and a blockchain-inspired immutable audit log for enhanced security and data integrity.

WORK EXPERIENCE

Slogan Technologies LLC | Remote, Nigeria | Dec 2019 to Present

Lead Software Engineer - Dec 2024 to Present

- Spearheaded a high-performing engineering team, driving a 35% increase in project delivery efficiency by implementing Agile methodologies and CI/CD pipelines.
- Architected and led the end-to-end development of QuantumPay, a fintech super-app that unified fragmented Pan-African payment rails. This initiative expanded market reach across 3 countries and is projected to increase transaction volume by 60% within the first year.
- Engineered the QuantumEdge Terminal, a multi-threaded algorithmic trading platform. The platform's backtesting engine demonstrated a 75% win rate across multiple strategies, and its AI-driven signal analysis has shown a potential to improve trade accuracy by up to 25%.
- Mentored a team of 5 junior developers, which resulted in a 30% improvement in their code quality and a 20% reduction in bug-related tickets.

Junior Software Engineer - Dec 2019 to Dec 2024

- Played a pivotal role in the development of "African Deity Kombat," a 3D fighting game in C# and Unity. Contributed to a 15% improvement in physics simulation accuracy and a 20% reduction in asset loading times.
- Automated geospatial data processing workflows for key clients, which led to a 40% reduction in manual processing time and a 25% increase in data analysis accuracy.
- Contributed to the development of a secure e-commerce and subscription management system by integrating Paystack, PayPal, and Stripe APIs, which now securely processes over 10,000 transactions monthly.
- Assisted in the implementation of a real-time AI/ML fraud detection engine that has successfully decreased fraudulent transactions by 15%.

PROFESSIONAL DEVELOPMENT & CERTIFICATIONS [\[view\]](#)

Advanced AI & Robotics	AI Engineer Associate Certificate, Master in AI Engineering, Medical Robotics Course, Deep Reinforcement Learning using Python
Data Science & Analysis	Data Analyst: Professional Certificate, IBM Data Fundamentals, Diploma in Data Science & Computer Vision
Core Engineering	2025 C++ Programming: Beginners to Advanced, Computer Engineering Mastery