

# Onyeka Nwokike

Software Developer | AI Researcher | Agricultural & Bioresources Engineer

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## Professional Summary

Agricultural and Bioresources Engineer and Full Stack Developer with expertise in environmental engineering. Proficient in Python, Django, Pandas, NumPy, SQL, and SEO, delivering scalable, innovative digital solutions for global and Nigerian clients.

## Technical & Digital Experience

### NLP & Research Contributions

- **Igbo Bilingual Chat:** Fine-tuned Phi-3-mini to understand, translate, and converse in Igbo while retaining English capabilities.
- **Igbo Translator:** Specialized English-to-Igbo translator fine-tuned from Microsoft's Phi-3-mini.
- **Igbo Archives Scrapers:** Modular scraper engine for collecting museum and blog data for the Hugging Face dataset.

### Featured Projects

- **Imara:** Digital Bodyguard designed to protect women and girls from online gender-based violence (OGBV) within messaging apps.
- **SpanInsight:** Data intelligence platform helping businesses and researchers collect forms, analyze data, and build dashboards.
- **Igbo Archives:** A modern PWA for the Igbo Archives, built with Django, HTMX, and Neon database.
- **Kiriong:** Django-powered platform empowering Nigerian artisans with a marketplace, AI learning academy, and community tools.
- **Akili:** Django-based learning platform with courses, quizzes, exams, KaTeX for math formulas, and PWA support.
- **NewsCheck AI:** Modular NLP project using multiple AI models to evaluate credibility, sentiment, and bias in news content.
- **Asase:** AI-powered environmental intelligence platform for Africa providing real-time analysis of flood risk, air quality, and land health.
- **Harmful Speech:** Multi-class AI classifier detecting topics of harmful online speech in Nigeria. Built with Scikit-learn & Streamlit.
- **YieldWise AI:** AI platform for African farmers providing farm planning, crop disease diagnosis, and business insights.
- **Zelcrys:** AI-powered cryptocurrency investment platform providing real-time market insights and sustainable investing tools.

## **Professional Experience**

**National Agricultural Seeds Council**, Sheda, Kwali, FCT Department  
*January 2025 – December 2025*

NYSC Intern, Seed Coordination

- Streamlined seed production processes, reducing distribution delays by 15% while enforcing Nigeria's quality standards.
- Operated machinery to process farm products (e.g., beans, cowpeas), ensuring high-quality packaged outputs.
- Collaborated on nationwide initiatives to promote sustainable farming practices and seed quality standards.

**GreenEarth Environmental Consult**, Enugu

SIWES Intern, Environmental Engineering

*January 2022 – June 2022*

- Conducted field sampling for 5+ Environmental Impact Assessments (EIAs), securing regulatory approval for sustainable projects.
- Developed 3 Environmental Management Plans (EMPs), achieving 100% compliance with environmental regulations.
- Presented risk mitigation strategies to stakeholders, gaining approval for 2 major infrastructure projects.

**Self-Employed** – Software Developer & SEO Specialist

March 2020 – Present

- Developed AI-powered platforms and data tools, improving client outcomes by 30% through optimized code.
- Enhanced project visibility by 50–200% using advanced SEO strategies and technical optimizations.

**Igbo Archives** – Founder, Chief Author & Blogger

March 2024 – Present

- Founded platform and led technical development, achieving 5,000+ monthly organic visitors through SEO.
- Authored 20+ articles on Igbo culture, driving 40% audience engagement growth via social shares and comments.
- Conducted in-depth research to ensure cultural authenticity, elevating Nigeria's cultural narrative online.

**Freelance Research & Project Writer**

2017 – Present

- Mentored 15+ university students in crafting high-quality final-year projects, achieving 90%+ academic approval rates.
- Produced 30+ research-driven documents across disciplines, enhancing client educational outcomes.

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## **Skills**

### **Core Engineering & Agricultural:**

- Environmental Impact Assessment, Environmental Management Plans, Sustainable Agriculture

### **Tech Stack:**

- Primary Language: Python
- Web Technologies: HTML5, CSS3, JavaScript, HTMX, Tailwind
- Backend: Django
- Data & AI: Hugging Face, Scikit-learn, Pandas, NumPy
- Database: PostgreSQL, MySQL, SQLite
- Deployment: Oracle Cloud, Azure, IBM Cloud, Render, Streamlit

### **Soft Skills:**

- Communication, Analytical Thinking, Team Collaboration, Research
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### **Education**

#### **University of Nigeria, Nsukka**

B.Eng in Agricultural and Bioresources Engineering

2017 – 2023

- Second Class (CGPA: 3.00/5.00)

#### **Power Learn Project (PLP Africa) Software Engineering Program**

2025

- AI for Software Engineering

#### **Federal Science and Technical College, Awka**

NABTEB Certificate in Electrical Installation and Maintenance Work

2014 – 2017

- Trade Test I, II, and III
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### **Certifications**

- B.Eng Certificate (University of Nigeria, Nsukka)
- PCAP: Programming Essentials in Python (Cisco Networking Academy & OpenEDG, July 2019)
- ASABE Membership
- FA Equality and Diversity Certificate
- Trade Test I, II, and III (Electrical Installation and Maintenance)
- AI for Software Engineering (Power Learn Project Africa, 2025)