Onyeka Nwokike

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nwokike.github.io/portfolio · github.com/Nwokike

Professional Summary

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

Technical & Digital Experience

- Designed and developed AI-powered platforms and data intelligence tools for diverse Nigerian and international clients.
- **Proficiencies:** Python, Flask, Django, Jinja, MySQL, PostgreSQL, Scikit-learn, Pandas, NumPy, Matplotlib, REST APIs, Git
- **Projects:**
  - **Kiri.ng** (kiri.ng): Django-powered platform empowering Nigerian artisans with a marketplace, AI-driven learning academy, community blogging, and real-time engagement tools.
  - **SpanInsight** (spaninsight.onrender.com): Data intelligence platform enabling businesses, researchers, and students to collect data, analyze trends, build dashboards, and publish insights.
  - **Asase** (asase-app.onrender.com): AI-powered environmental intelligence platform for Africa, providing real-time analysis of flood risk, air quality, and land health.
  - **Nigerian Hate Speech Analyzer** (nigerian-hate-speech-analyzer.streamlit.app): AI tool performing multi-class text classification to analyze harmful online speech in Nigeria.
  - **YieldWise AI** (yieldwise-ai.onrender.com): AI platform for African farmers, offering farm planning, crop disease diagnosis, and business insights.
  - **Zelcry** (zelcry.onrender.com): AI-powered cryptocurrency investment platform with real-time market insights, news, portfolio management, and sustainable investing tools.
  - **Igbo Archives** (igboarchives.com.ng): Content-rich WordPress website preserving Igbo heritage, grown organically through advanced SEO strategies.
- **Portfolio:** nwokike.github.io/portfolio

Professional Experience

National Agricultural Seeds Council, Sheda, Kwali, FCT — NYSC Intern, Seed Coordination Department

January 2025 – Present

- 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.

Skills

Core Engineering & Agricultural:

- Environmental Impact Assessment, Environmental Management Plans, Sustainable Agriculture

Technical & Digital:

- Python, SQL, Flask, Django, Jinja, MySQL, PostgreSQL
- Scikit-learn, Pandas, NumPy, Matplotlib, REST APIs, Git
- WordPress, Responsive Design, SEO, Technical Documentation

Soft Skills: Communication, Analytical Thinking, Team Collaboration, Research

Education

University of Nigeria, Nsukka

B.Eng in Agricultural and Bioresources Engineering, 2017 – 2023

- Second Class Lower Division (CGPA: 3.00/5.00)
- Relevant Coursework: Sustainable Agriculture, Environmental Engineering, Bioresources Management

Power Learn Project (PLP Africa)

Software Engineering Program, 2025 – Present

- Specializing in 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

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, III (Electrical Installation and Maintenance)