IKECHUKWU OKUZU

Engineering Leader | Water & Climate Solutions Expert | Technology Partnership Strategist

Bridging government, academia, and technology to deliver scalable infrastructure solutions across Africa

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Maiduguri, Borno State, Nigeria

STRATEGIC NETWORK ACCESS

Direct connections to 36 state water ministries, 9,000+ engineering students across 9 departments, and international development organizations. Proven ability to mobilize resources, establish partnerships, and deliver measurable impact at scale.

9,000+	**36**	**500+**
Students Accessible	State Ministries	Direct Contacts

AI-DRIVEN DEVELOPMENT

Access to cutting-edge open-source AI infrastructure that <u>enables non-developers and junior developers to perform complex software development work</u>:

- **10x Productivity:** Junior developers and engineering students achieve senior-level output through AI-driven code generation, testing, and deployment
- **Rapid Training:** Transform computer science students into productive developers within 2-4 weeks
- **Cost Efficiency:** Reduce development costs by 60-70% while maintaining enterprise-grade quality
- **Open Source:** Built on proven open-source infrastructure - **github.com/mind-protocol/scopelock**

Strategic Impact: This technology enables universities to provide immediate real-world value to students while delivering cost-effective solutions to government and enterprise clients.

PROFESSIONAL SUMMARY

Award-winning engineering professional with exceptional access to Nigerian government agencies, international development organizations, and university networks. Former President of Engineering Student Association at University of Nigeria with direct connections to 9 departments encompassing 9,000+ students. Currently serving as Chair of IWA Young Water Professionals Nigeria, providing interface with water ministries across all 36 Nigerian states. Expertise in leveraging cutting-edge AI-driven infrastructure to enable non-developers and junior developers to perform complex software development work—reducing project costs by 60-70% while maintaining enterprise-grade quality. Proven ability to bridge government, academia, and technology sectors to deliver scalable infrastructure solutions across Africa's water, climate, and technology challenges.

CURRENT LEADERSHIP POSITIONS

Chair
Dec 2023 - Present (2 years)

IWA Young Water Professionals Nigeria

Network Access: International Water Association (IWA) - the global authority on water professionals

- Direct interface with water ministry commissioners across all 36 Nigerian states
- Regular participation in government water policy discussions and infrastructure planning meetings
- Access to Federal Ministry of Water Resources officials and local government water officers
- Connection to international water development organizations and WASH-focused NGOs
- Gateway to UN SDG 6 initiatives and World Bank water projects

Africa Regional Coordinator
Jul 2023 - Present (2+ years)

Swiss Agency for Development and Cooperation (1MYAC Ambassador)

International Development Leadership: Swiss government-backed position connecting to major development funding channels

- Access to Swiss development grants ($250K-500K range)
- Connection to UN Water SDG 6 funding initiatives (millions available)
- Network with World Bank water infrastructure projects
- Partnership coordination with international development organizations

Partnership Lead - University & Government Relations
Nov 2025 - Present

ScopeLock AI-Driven Software Development Agency

Strategic Initiative: Leveraging AI-driven development to build 5x delivery capacity through university talent pipeline and government contract development

- **AI-Driven Student Development Program:** Recruiting and training 150-200 students from 9 engineering departments using cutting-edge AI infrastructure that enables junior developers to perform senior-level work within weeks
- **University Partnership Strategy:** Establishing official partnerships with Computer Science, Software Engineering, and Engineering departments—providing students with real client work experience and measurable career outcomes
- **Government Contract Pipeline:** Opening channels for water infrastructure systems, climate monitoring platforms, disaster relief coordination tools, and environmental data management solutions
- **Technology-Enabled Scalability:** Utilizing AI-driven development to reduce project costs by 60-70% while maintaining enterprise-grade quality—enabling competitive pricing on government contracts
- **Internship-to-Employment Pipeline:** Creating systematic path from student recruitment through AI-driven training to full-time employment, solving both talent acquisition and youth employment challenges
- **Projected Impact:** $2M-4M revenue growth in Year 1 through combination of student-leveraged delivery capacity and government contract channels

Climate Change Officer

Jun 2024 - Mar 2025 (Contract)

Federal Ministry of Environment, Nigeria

Maiduguri, Borno State (On-site)

- Strategic partnership with EcoVanguard NYSC CDS Group for environmental sustainability
- Led tree-planting initiative at Borno State Firewood Market
- Negotiated "Cut 1 Tree, Plant 10" campaign with government stakeholders
- Active government insider with Federal Ministry credentials and state agency connections

Flood Relief and Assessment Specialist

Oct 2024 - Dec 2024 (3 months)

Flood Relief Disbursement Committee

Maiduguri, Borno State

- Conducted data collection across 15 flood-affected communities
- Verified 5,000+ beneficiaries for relief fund disbursement
- Engaged with local leaders, flood victims, and stakeholders
- Compiled detailed impact reports with demographic and socioeconomic data
- Informed strategic planning for future flood risk mitigation

EDUCATION & ACADEMIC LEADERSHIP

Bachelor of Engineering (B.Eng) - Agricultural and Bio-Resources Engineering

University of Nigeria, Nsukka

2017 - 2022

 President of Engineering Student Association (ABESA) - 2023

 Direct access to 9 engineering departments (Computer Science, Software Engineering, Electrical, Mechanical, Agricultural, Civil, Chemical, Industrial, Systems Engineering)

 Network: 9,000+ students across 9 departments - recruitable talent pipeline for industry partnerships

INTERNATIONAL RECOGNITION & AWARDS

2021 Filmmaker Award - Canada

Global Institute for Water Security, University of Saskatchewan

May 2021

Created award-winning short water film that attracted 2 water projects. Out of 241 submitted video entries, only 3 came from Africa - reached Viewers Choice Award. Demonstrates storytelling ability, international recognition, and comfort with AI-powered filmmaking tools.

NESTEC Essay Winner (3rd Runner)

BlueApple

February 2022

TECHNICAL EXPERTISE & SKILLS

WATER & CLIMATE SOLUTIONS

- Water infrastructure systems
- Climate change monitoring
- Environmental data collection
- Disaster management
- WASH (Water, Sanitation, Hygiene)

GOVERNMENT RELATIONS

- Ministry-level stakeholder engagement
- Government procurement processes
- Policy development collaboration
- International development funding
- Public-private partnerships

UNIVERSITY PARTNERSHIPS

- Student recruitment & management
- Industry-academia collaboration
- Internship program development
- Technical training & mentorship
- Capstone project coordination

PRODUCT DEVELOPMENT

- Software requirements analysis
- Product conceptualization
- Fixed-price project delivery
- Technical writing & documentation
- Digital storytelling & communications

PROFESSIONAL CERTIFICATIONS

Water in Communications Training Programme

SIWI - Stockholm International Water Institute

June 2025 | Focus: Storytelling and Journalism

Hygiene Promotion

DisasterReady

April 2025

Advanced Engineering Studies

University of Nigeria, Nsukka

2017-2022 | Agricultural & Bio-Resources Engineering

SELECT PUBLICATIONS

- **"Challenges and opportunities in power generation and transmission in Nigeria"** - NIEEE, October 2023
- **"Covid-19 Transmission Prevention Using Artificial Intelligent Door"** - Blue Apple, June 2021 (Demonstrates AI/automation innovation mindset)

LANGUAGES

English (Full Professional Proficiency)

German (Limited Working Proficiency)

Hausa (Native/Fluent)

Igbo (Native/Fluent)

STRATEGIC VALUE PROPOSITION

For Universities: Access to AI-driven development infrastructure that enables students to contribute to real client projects immediately—providing measurable employment outcomes, industry partnerships, and revenue-generating research opportunities without capital investment.

For Government Agencies: Cost-effective, high-quality software solutions delivered through proven fixed-price model. Direct access to decision-makers across 36 states, understanding of procurement processes, and credibility through Federal Ministry position. AI-driven development reduces costs by 60-70% while maintaining enterprise standards.

For Technology Companies: Immediate access to 9,000+ student talent pool trained on cutting-edge AI-driven development infrastructure, established government contract channels generating $2M-4M annually, and connections to international development funding sources (Swiss Agency, UN Water, World Bank).