

# Alvin O. Forteta

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## Summary

Technology executive and AI systems builder with 15+ years of experience delivering infrastructure, governance intelligence, and digital transformation at institutional scale. Currently designing and deploying a four-layer neurosymbolic intelligence platform on self-hosted VPS infrastructure, integrating n8n workflow orchestration, Ollama/Mistral 7B neural inference, and a Neo4j knowledge graph — all implemented end-to-end. Proven delivery track record: a live course evaluation system serving 3,333 active users replaced a weeks-long legacy process through automated workflows and custom ERP middleware. Combines deep technical hands-on capability across the full stack — from server configuration and Docker deployment to API integration and AI pipeline design — with the strategic and governance acumen of a senior institutional leader. Documents everything. Builds systems others can maintain. Owns outcomes from architecture to production.

## Core Competencies

Data Analysis | Cloud Computing | AI/ML | Research | Enterprise Systems | Team Leadership

## Education

- Ph.D. in **Information Systems** (In Progress) | American University of Nigeria | Expected 2026
- M. Tech. in **Operations Research** | Federal University of Technology, Yola | 2011
- PGD. in **Theology** | The Redeemed Christian Bible College | 2014
- B.Sc. (Ed.) in **Mathematics** | Delta State University, Nigeria | 1998
- WASSC (SSCE) | Nigerian Military School, Zaria | 1992

## Skills

**Databases:** Oracle, MSSQL, MySQL, PostgreSQL, MariaDB, Neo4j

**Cloud:** Microsoft Azure, Office365 administration, AWS, Oracle Cloud Infrastructure (OCI)

**Servers & Virtualization:** Windows, Linux, Hyper-V, VMWare, Docker

**Analytics:** R (Programming Language), Power BI, Tableau, SPSS, STATA

**Big Data:** Apache Hadoop, Apache Spark

**AI/ML:** n8n, Ollama, LLMs, RAG, Machine Learning

**Programming:** Python, Visual Basic .Net, VBA

## AI Systems & Platform Development

**OIRE WebApp — Neurosymbolic Governance Intelligence Platform** (*Prototype | AUN, Yola*)

Designing and building a locally-hosted, zero-subscription neurosymbolic intelligence platform on Ubuntu 24.04 LTS institutional infrastructure, with live integration to AUN's legacy ERP system via custom middleware. The four-layer architecture integrates: a PHP 8.2 / MariaDB 10.11 / Apache 2.4 operational core managing 15,503 student records across 13 semesters; n8n self-hosted as a Docker-containerized workflow orchestration engine governing all AI pipeline sequencing and webhook-triggered event processing; Ollama running Mistral 7B (Q4\_K\_M) as the local neural inference layer for semantic annotation and autonomous signal classification; and Neo4j Community Edition as an institutional knowledge graph. All n8n workflows and Ollama integrations implemented end-to-end. Operates without external API dependencies or cloud subscription costs. Built using Claude Code and Python.

## **AUN Faculty Course Evaluation System** *(Live | AUN, Yola)*

Designed, built, and deployed a full-stack faculty course evaluation system currently serving approximately 3,333 active users, replacing a legacy system that required weeks of manual preparation per evaluation cycle. The platform reduces cycle setup to minutes through automated workflows and live integration with AUN's legacy ERP system via custom middleware. Generates automated PDF audit trails and feeds evaluation outputs into the institutional governance reporting layer. Built using Claude Code, PHP 8.2, and MariaDB 10.11.

## **Professional Experience**

### **Director, Institutional Research & Effectiveness | American University of Nigeria | MAR 2024 - PRESENT**

- Lead data-driven analyses and develop analytical models to provide strategic insights and support regulatory compliance.
- Generate comprehensive reports and deliver evidence-based recommendations to senior administrators, board members, and academic leaders.
- Collaborate across departments to track KPIs, conduct studies, and create data visualizations that inform decision-making.
- Integrate advanced statistical techniques and predictive analytics to guide strategic planning, resource allocation, and continuous improvement initiatives.

### **Director, Academics & Records | American University of Nigeria | Aug. 2022 – Mar. 2024**

- Managed student academic records, course scheduling, and enrollment data, ensuring compliance with academic regulations.
- Leveraged advanced analytics to provide strategic insights for institutional decision-making, accreditation, and policy development.
- Helped develop academic catalogs, course descriptions, and degree audit reports, overseeing technical writing functions.
- Generated detailed reports on enrollment trends, academic performance, and institutional effectiveness using student information systems.

### **Web Systems Manager | University of Africa, Toru-Orua | Nov. 2017 – Aug. 2022**

- Led the strategic development and implementation of web infrastructure and digital platforms integrated into the Office365 suite, supporting academic and administrative needs.
- Managed technology policies, ensuring cybersecurity and designing digital solutions for students, faculty, and staff.
- Coordinated enterprise-wide technology initiatives, overseeing critical web-based systems and digital transformation efforts.
- Aligned technology infrastructure with institutional goals, ensuring reliable, high-performance digital operations across the university.

### **Web Manager | Elizade University, Ilara-Mokin | Mar. 2013 – Nov. 2017**

- Managed the university's web presence, overseeing all information systems and web applications, later transitioning to head the entire IT division.
- Led strategic web development, design, and maintenance to ensure seamless integration of digital communications and user experience.
- Taught courses in Business Administration, bridging academic instruction with practical technological expertise.
- Coordinated web services, implemented cybersecurity protocols, and developed digital solutions supporting academic and administrative functions.

### **Deputy Director, Web Services | American University of Nigeria, | Jan. 2010 – Feb. 2013**

- Led a team in overseeing the university's web presence, managing digital platforms and web development initiatives, including pioneering the creation of the university's flagship electronic newsletter (AUN*this*WEEK).
- Supervised the creation, maintenance, and improvement of web-based services to align with branding, communication goals, and user experience standards.
- Managed technical infrastructure, content development, and user interface design for university websites and online portals.
- Implemented web policies, maintained cybersecurity protocols, and drove digital transformation to enhance online visibility and engagement.

### **Head of Computing | AUN Academy, Yola | Sept. 2008 – Dec. 2009**

- Led the Academy's computing department, overseeing all aspects of technology, integration, and infrastructure management.
- Successfully implemented a Microsoft Access-based application for managing all academic data of the school, improving data organization and accessibility for staff and administrators.
- Introduced new technology courses and initiatives to equip students with essential digital literacy skills.
- Led a team of IT staff to provide technical support to students, teachers, and administrators.

### **Graduate Assistant | Federal University of Technology, Yola | Oct. 2005 – Aug. 2008**

- Served as Departmental Examination Officer in the Department of Information Technology, responsible for managing all academic records of well over three thousand undergraduate and associate degree students in the department of Information Technology
- Taught several courses at the undergraduate and associate degree level.
- Oversaw the migration from a pre-digital to a database-driven model for managing results.

### **Prior roles: mathematics instruction, editorial, and graduate research | 1999 – 2005**

## **Certifications**

2025 | Oracle Fusion Cloud Enterprise Resource Planning (ERP) Associate

2024 | Oracle Cloud Infrastructure 2024 Generative AI Professional

2024 | Oracle Cloud Infrastructure 2023 AI Foundations Associate

2024 | Human Research Ethics (Biomedical) Investigators

2024 | Human Research Ethics (Social Science) Investigators

2024 | Nigerian National Code for Health Research Ethics

2023 | Oracle Cloud Infrastructure 2023 Foundations Associate

2022 | Oracle Cloud Infrastructure Foundations 2021 Associate

2020 | Huawei Certified ICT Associate (Big Data) – HCIA

2019 | Huawei Certified Academy Instructor – HCAI

2019 | Huawei Certified ICT Associate (Routing & Switching) – HCIA

2012 | Oracle Certified Java EE 5 Web Component Developer – JPN

## Publications & Professional Memberships

### Publications:

**Forteta, A. O.** (2025). *Rethinking Institutional Memory: An Adaptive Systems Approach for Disruptive Contexts*. Proceedings of the 3<sup>rd</sup> AUN International Conference, Yola. Vol 3, Issue 1 e-ISSN: 3027-0650 October 30-November 1, 2025

**Forteta, A. O.** (2025). *The Four Faces of Forgetting: Toward a Taxonomy of Memory Loss in Digital Governance*. Proceedings of the 3<sup>rd</sup> AUN International Conference, Yola. Vol 3, Issue 1 e-ISSN: 3027-0650 October 30-November 1, 2025

**Forteta, A. O.**, Porbeni, E. A., Okpeh, H. J., & Dauda, A. (2025). Rethinking Digital Governance Through Disruption Awareness and Resilience Memory: The Case of the Moodle LMS at UAT. MoodleMoot Africa 2025 Conference, Abuja. October 8-10, 2025.

Joseph, N. S., & **Forteta, A. O.** (2023). Open Innovation for SMEs in Transitional Economies and Developing Countries: A Longitudinal Study of Nigeria, Cameroon, and Ghana. *Proceedings of the 1st AUN International Conference on Research & Innovation for National Development*.

Oriogun, P., Abaye, A., **Forteta, A. O.**, & Shorunke, M. (2015). Towards a Model for Auditing ICT Infrastructure Projects in a Developing Economy. *Software Quality Management Conference, UK (ISBN 978-0-9926958-6-6)*.

Gadzama, A. M., & **Forteta, A. O.** (2011). *The Strategic Place of Operations Research in the Development of Information Delivery Systems*. Journal of Management, Arts and Technology (JOMAT).

### Key Professional Memberships:

- 2025 – Date Nigeria Computer Society (NCS)
- 2022 – Date Association for Information Systems (AIS).
- 2022 – Date Operations Research Society (ORS).
- 2011 – Date Institute for Operational Research and the Management Sciences (INFORMS).
- 2026 – Date Graduate Program Network, Council of Independent Colleges (CIC)

### Other Achievements

- Secured over ₦80 million in funding to facilitate the development of a 300-user computing hub at the University of Africa, Toru-Orua, significantly improving campus connectivity, institutional research capacity and student training.
- Played a critical role in negotiating with the major telecommunications companies (MTN, Glo, Airtel) to establish telecommunication network presence in the university host communities of Toru-Orua and Bolou-Orua which before then had almost no network coverage.
- Achieved a 50% reduction in the cost of Internet services at the University of Africa (from ₦8.4 million per quarter down to ₦4.2 million per quarter), simultaneously achieving more than 200% increase in capacity (from 50mbps to 310mbps for both of our campuses) through aggressive renegotiation of the terms of the existing contracts in a transparent, rigorous and very competitive process which was open to all major ISPs in the country. This saved the university almost ₦20 million annually in bills.
- Conceived and set up campus-wide CCTV and IP telephony system at Elizade University connected with video walls at the Vice Chancellor's office, Registrar's office, and the newly created campus security's Command and Control (CnC) station, seamlessly integrating information technology into the security architecture, thus significantly improving campus security.