

Isaac Oluwaseun Akinmokun



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— [Isaac Akinmokun](#)

Executive Summary

Quantitative Real Estate & Investment Analyst specializing in property market intelligence, valuation, and portfolio optimization. Expert at blending estate management principles with quantitative engineering (spatial databases, mathematical models, and automation) to analyze yields and optimize real estate pension fund assets.

Technical & Analytical Skills

- **Real Estate & Financial Analytics:** Property Valuation, Asset Evaluation, Real Estate Portfolio Management, Markowitz Mean-Variance Optimization, Facility & Property Management, Spatial Analysis (PostGIS).
- **Analytical & Programming Tools:** Microsoft Excel, Python (SciPy, Pandas, NumPy), SQL (PostgreSQL), Java, React, Git.
- **Collaboration & Methodologies:** Market Research, Technical Report Writing, Team Leadership, Agile/Scrum, Stakeholder Communication.

Professional Experience

Jide Taiwo & Co, Central Valuation Intern (Lagos Island, Nigeria) Aug 2024 – Oct 2024

- Conducted property and asset valuations for residential and commercial assets using quantitative valuation models in Microsoft Excel.
- Analyzed local real estate transaction histories, rental yields, and neighborhood economic indicators to support valuation assessments.

Lagos State Ministry of Housing, Property & Facility Management Intern (Lagos, Nigeria) Apr 2025 – Sept 2025

- Supported facility management, lease administration, and tenant compliance operations across state-owned housing schemes.
- Assisted in state housing asset audits and database reconciliation, ensuring records conformed to government public housing guidelines.

Projects & Quantitative Research

Portfolio Optimization Engine (Dissertation), Quantitative Developer | Python, Java, SciPy, PostgreSQL 2025 – 2026

- Engineered a hybrid mathematical model implementing the Markowitz mean-variance optimization model for real estate pension funds.
- Developed a FastAPI backend using SciPy's SLSQP algorithm to dynamically calculate and visualize optimal asset weights.

Property Intelligence Platform, Systems Developer | Java (Spring Boot), PostgreSQL, PostGIS, Redis 2026 – Present

- Designed a REST API that aggregates and processes longitudinal property transaction and price history data.
- Integrated PostGIS spatial indexing for location proximity analysis and Redis memory caching to optimize geocoded property lookups.

PropertyScraper, Creator | Python (3.12), PostgreSQL, BeautifulSoup, GitHub Actions 2026 – Present

- Architected an automated web-scraping pipeline collecting 10,000+ weekly residential listings across West African property portals.
- Captured price changes over time to construct a longitudinal database for training future Automated Valuation Models (AVMs).

Education

Bachelor of Science in Estate Management, Obafemi Awolowo University 2020 – 2026

- Grade: Second Class Honours: Upper Division
- Thesis: [Heuristics in Property Portfolio Selection Decisions of Nigerian Pension Funds](#)

Leadership & Extracurricular Activities

Assistant Class Representative, Obafemi Awolowo University 2023 – Present

- Coordinated academic activities and communicated schedules, updates, and course adjustments for a cohort of 80+ students, acting as the primary liaison between students and university lecturers.
- Resolved scheduling conflicts, organized study groups, and managed distribution of learning materials, fostering an inclusive and collaborative learning environment.