

Kingsley Etonwana Nweye

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EDUCATION

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- University of Texas at Austin** Austin, TX, United States
 - Ph.D. - Civil Engineering; GPA: 4.000/4.000* Aug 2021 - Present
 - M.S.E. - Civil Engineering; GPA: 4.000/4.000* Aug 2019 - Aug 2021
 - Courses: Data Mining, Energy Simulation in Building Design, HVAC Design, Smart Buildings & Cities, Sustainable Building Design*
 - University of South Carolina** Columbia, SC, United States
 - B.S.E. - Mechanical Engineering; GPA: 3.858/4.000 (Magna Cum Laude)* May 2013 - May 2017
 - Courses: Algorithmic Design, Engineering Optimization, Engineering Ethics, Fluid Mechanics, Heat Transfer, Thermodynamics*

SKILLS SUMMARY

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- **Programming:** Bash, Java, LaTeX, MATLAB, Python, SQL, Swift
 - **Tools:** AutoCAD, AWS, EnergyPlus, eQUEST, Firebase, Git, Grafana, Inventor, Jira, OpenStudio, Raspberry Pi
 - **Soft Skills:** Leadership, Public Speaking, Time Management, Writing

EXPERIENCE

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- Intelligent Environments Laboratory, University of Texas at Austin** Austin, TX, United States
 - Graduate Research Assistant* Aug 2019 - Present
 - **Reinforcement Learning for Building Energy Management:** Led the development of CityLearn Gym environment v1.1.0 - present and researched on the use of reinforcement learning control for demand response and grid-interactive building applications.
 - **Occupant-Centric Control:** Developed cost-effective framework for the estimation of occupancy counts by leveraging existing Wi-Fi infrastructure as well as estimation of energy savings estimation from utilizing occupancy and smart meter data for HVAC equipment ramp up and setback scheduling.
 - **Publications:** First-authored 5 of 8 peer-reviewed full and poster paper publications.
 - **Mentorship:** Mentored 3 undergraduate and 2 graduate students in machine learning and building energy modeling projects.
 - Utilities and Energy Management, University of Texas at Austin** Austin, TX, United States
 - Graduate Research Assistant* Jan 2020 - Present
 - **University of Texas Energy Hub:** Developed and maintained cloud architecture for the collection, storage and manipulation of data from over 1,000 utility meters and 200 buildings located on the university campus and micro-grid. The data were used to model energy and water consumption for the purposes of demand-side management, fault detection, project planning, billing, business intelligence and reporting. Employed technologies were AWS (Athena, API Gateway, Lambda, QuickSight, RDS PostgreSQL, S3) and Python.
 - **Comfort Kiosk iOS Application:** Developed Apple iPad application for thermal comfort polling to determine occupant indoor environment preferences and optimal HVAC zone set-point schedules. Tech: Firebase, Swift. Employed technologies were Google Firebase, Python and Swift.
 - **Building Energy Performance Modeling:** Developed and calibrated energy models for the evaluation of energy conservation measures in 3 existing buildings.
 - CAEE Department, University of Texas at Austin** Austin, TX, United States
 - Teaching Assistant; Elementary Mechanics of Fluids Laboratory* Jan - May 2021
 - **Lecturing:** Lectured and supervised class of 30 undergraduate students on laboratory experiments and graded laboratory exercises and reports.
 - **Evaluation:** Received “very good” or “excellent” overall rating from 80% of responses in an anonymous mid-semester survey that had a 50% return rate.
 - TotalEnergies E&P Nigeria Limited** Port Harcourt, Rivers, Nigeria
 - Maintenance Engineer Trainee* Sep 2016 - Feb 2018
 - **HVAC Maintenance:** Conducted routine maintenance on chillers, AHUs, DX packaged systems, extractor fans and split air conditioners and prepared quotations for the mechanical and electrical part purchase orders.

AWARDS

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- Third place in Technical Demonstration category and \$5,000 award for “Building Energy Intensity Toolchain” submission at Real Time Energy Management Global Energy and Building Hackathon by New York State Energy Research Development Agency - July, 2022

ACTIVITIES

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- **Co-President of TexASHRAE** Austin, TX, United States
 - Provided networking opportunities with local MEP professionals and firms for students.* Aug 2021 - Present

INTERESTS AND HOBBIES

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- DJ'ing, LEGO, Paintball, Running, Soccer, Weightlifting.