

NKECHI JENNIFER AKWARI

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EDUCATION

Ph.D. Computer Science 2022 – 2025 (expected)

University of Cincinnati, College of Engineering and Applied Science (CEAS), Cincinnati, Ohio

Research Areas: Database, Data Provenance, Machine Learning

Adviser: Dr. Seokki Lee

Coursework: Advanced Algorithms, Database, Applied AI and ML, Intelligent Data Analysis, Networking, Automata, Cloud Computing, Big Data Analytics

Bachelor of Science, Computer Science 2018

University of Ibadan, Oyo, Nigeria

First Class Honors

Award: Best Graduating Student in Computer Science

Thesis: Design and Implementation of an Academic Advisory System

Adviser: Dr. Onifade, O.F.W.

Coursework: Programming and Algorithms, Abstract Algebra, Statistical Inference, Data Structures, Operating Systems, Database Systems, Information Theory

Associate Degree (OND), Computer Science 2013

Yaba College of Technology, Nigeria

Distinction

Award: Yaba College of Technology, Special Merit Award for Overall Best Student

Coursework: Logic and Linear Algebra, Elementary Probability, Programming in C++, Calculus

RESEARCH EXPERIENCE

Graduate Research Assistant, University of Cincinnati, CEAS, Cincinnati, Ohio January 2022 – Present

- Working with the Databases group on research focused on databases and data provenance, their benefits to machine learning pipelines and its decision-making process

WORKING PAPER(S)

Nkechi J. Akwari*, Dwarkesh Rajput*, Justin Turnau, Seokki Lee In submission, 2023

Unboxing Machine Learning (ML) Model Predictions using Data Provenance

TEACHING (VOLUNTEER)

Tutor, University of Ibadan, Nigeria 2015 – 2017

- Taught Information Management Systems, Compiling Techniques, and Database Systems
- Organized tutorials covering coursework and practicals, during my second and final year at the University
- Conducted mock exams to establish confidence in the students prior to the examinations in the courses taught

Tutor, Yaba College of Technology 2013

- Organized tutorials on Computer Applications for Urban and Regional Planning students prior to the examination

AWARDS AND HONORS

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| • weSTEM 2023 Conference Funding Award | 2022 |
| • Best Graduating Student in Computer Science, University of Ibadan | 2018 |
| • Cyber Security Challenge (CYSEC) NG Inter-Platoon NYSC Hacking Challenge (2nd place winner) | 2018 |
| • NACOSS Representative Council Award of Service | 2018 |
| • Most Influential Student, Female (400 level Category) | 2017 |
| • Federal Government of Nigeria Scholarship Awards | 2017 |
| • NACOSS Award of Excellence for Dean's Cup Winners (Soccer) | 2015 |
| • Yaba College of Technology, Special Merit Award for Overall Best Student | 2013 |

TECHNICAL SKILLS

Python, SQL, Java, ApacheSpark, ML Libraries, Tableau, MS Excel, Scrum, Jira

PROJECT

- Kaggle - Exploratory Data Analysis; Stroke Prediction Using 6 ML models
(<https://www.kaggle.com/code/nkechiyeree/simple-eda-stroke-prediction-using-6-ml-models>)

WORK EXPERIENCE

- Engineering Summer Camp Counselor**, CEAS, University of Cincinnati June 2022 - July 2022
- Guided campers through engineering practices via hands-on science and engineering activities and capstone projects
- Business Process Analyst and Change Manager**, Heritage Bank PLC, Lagos, Nigeria 2020 – 2021
- Industry:** Financial Institution; Projects Domain: Web, Mobile, API
- Engaged in requirement elicitation, data analysis, data visualization, and documentation to guide business in improving processes, products, and services and inform business decisions; Worked with Cross-Functional Teams; User Story and Workflow Build; Change Management
- Technical Project Manager**, AppZone Limited, Lagos, Nigeria 2019 – 2020
- Industry:** FinTech; Projects Domain: Web, Mobile
- Led agile teams of up to 20 developers, programmers, analysts, testers, and network specialists to ensure project milestones were completed on time, on budget, and with the desired results.
 - Collaborated towards the development of new software applications as well as modifications to existing software, ensuring that goals and performance expectations are met in line with customer requirements.
 - Functional and Non-Functional Testing; User Acceptance and Pilot Test Activity; User Training and Project Sign-off
- Web Administrator | Community Manager**, Premier Medical Systems, Ikeja, Lagos, Nigeria 2018 – 2019
- Industry:** Health Technology
- Introduced innovations that improved user interactions by 55% in the online community; Data-driven business analysis and targeted sales.
 - Led projects that improved the indigenous Drupal website's look and feel, thereby improving user engagement.
- Software Developer (Internship)**, CWG Group, Victoria Island, Lagos, Nigeria 2016 – 2017
- Collaborated with the team on software development and back-end database maintenance

CERTIFICATIONS AND TRAINING

- Become a SQL Developer, LinkedIn Learning 2022
- ITIL Foundation Level AXELOS 2021
- Project Management Essentials Certified 2020
- Certified Secured Computer User (CSCU) 2018
- Google Africa Scholarship Front End Course 2018

LEADERSHIP/COMMUNITY ENGAGEMENT

- SWENext Club Counselor December 2022 - present
- SWENext Invent It, Build It (IIBI) Volunteer @SWE22 October 2022
- Content Developer - Magazine, University of Cincinnati Nigerian Students Association July 2022 - present
- Treasurer, EECS Graduate Student Association, University of Cincinnati January 2022 – present
- Career and Scholarship Counselor, SoftSeven Initiative January 2020 – present
- The One Habitat, @The1Habitat
- Social Media Manager|Graphic Designer May 2019 – Dec 2021
 - Counselor May 2019 – present
- Lead, Singles Fellowship, True Worshipers International Ministries January 2019 – July 2021
- National Association of Computer Science Students (NACOSS) Legislative Representative 2016 - 2017

CONFERENCES/WORKSHOPS ATTENDED

- Society of Women Engineers Conference WE22 October 2022
- 39th International Conference on Machine Learning (ICML) July 2022
- Cyber Summer School July 2022
- ACM SIGMOD/PODS International Conference on Management of Data June 2022
- EDBT/ICDT 2022 Joint Conference March 2022

CONFERENCE REVIEWING

- Proceedings of the VLDB Endowment 2022

PROFESSIONAL MEMBERSHIP

- Society of Women Engineers (SWE) 2022 - present
- IEEE Computer Society 2022 - present
- IEEE Women in Engineering 2022 - present