Janet Adaze Ikhile

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EDUCATION

University of Utah Aug 2023 – Present
Kahlert School of Computing, Salt Lake City, Utah, USA

- PhD, Computing
- Research Focus: Human-Computer Interaction (HCI), Digital Health Tools
- CGPA: 3.983/4.0 Anticipated Graduation: Fall 2028

Covenant University Sept 2015 – Dec 2020
Ota, Ogun State, Nigeria

- B.Sc., Mathematics
- CGPA: 3.91/4.0

RESEARCH INTERESTS

Human-Computer Interaction, Digital Health, Clinical Decision Support, Human-AI Interaction

RESEARCH EXPERIENCE

Graduate Research Assistant, University of Utah Aug 2023 – Present

- Led qualitative interview study with movement disorder specialists to understand clinical workflows and decision-making, resulting in a peer-reviewed publication.
- Conducting a study with individuals with Parkinson's disease to evaluate the feasibility, validity, and reliability of touchscreen-based motor assessment tools.
- Designed and developed touchscreen-based tools to measure motor performance for clinical assessment.
- Performed inductive thematic analysis on interview data to identify opportunities for clinician and patient-centered digital tool design.
- Led IRB protocol development (including amendments) and obtained exemption for human subjects research.
- Conducted literature reviews and synthesized findings to support multiple research manuscripts and resubmissions.

PUBLICATIONS

Peer-Reviewed Journal Articles

J. A. Ikhile, V. Pandey. Understanding Movement Disorder Specialists' Workflow for Designing Digital Health Tools. *ACM Transactions on Computing for Healthcare*, 2026.
DOI: 10.1145/3803795

Abstracts and Posters

J. A. Ikhile, V. Pandey. Supporting Movement Disorders Specialists with Digital Tools that Integrate with their Workflows. *Movement Disorders*, vol. 40, suppl. 1, 2025.
Abstract Link

J. A. Ikhile. Human-Centered Design of Touch-Based Tools for Tracking Motor Performance. Poster presented at *Data Exploration and Learning for Precision Health Intelligence (DELPHI)*, 2024.
Symposium Link

TEACHING EXPERIENCE

Teaching Assistant – Designing Digital Health Systems Jan 2025 - Apr 2025
University of Utah

- Supported course instruction, including assisting discussions and in-class activities.
- Designed and graded assignments and student projects focused on developing digital health systems.

Backend Instructor Feb 2023 – Aug 2023
Seamfix Limited

- Designed and delivered curriculum for backend development using Java and Spring Boot.
- Created and graded assignments to assess student understanding of backend systems.
- Mentored students on project development and provided feedback to support technical growth.

INDUSTRY EXPERIENCE

Software Engineer Jan 2021 – Jul 2023
Seamfix Limited

- Developed and maintained enterprise applications using Java EE and Spring Boot, supporting large-scale system functionality.
- Wrote unit and integration tests to improve code quality, reliability, and system performance.
- Collaborated with product and design teams to understand user requirements and implement effective technical solutions.
- Monitored and debugged system issues using AWS CloudWatch and Kibana to support product delivery.
- Participated in Agile development processes, including sprint planning, code reviews, and continuous integration workflows.

Software Quality Assurance Engineer Intern Jan 2019 – Jul 2019
Seamfix Limited

- Designed test plans and testing scenarios to evaluate software functionality and performance.
- Documented and reported software defects, supporting developers in identifying and resolving issues.
- Conducted regression and usability testing to ensure system reliability and user experience.
- Participated in product design reviews to provide input on functionality and potential system issues.

Java Development Intern Feb 2016 – Dec 2016
NIIT

- Developed Java-based projects individually and in teams to apply core programming concepts.
- Supported onboarding of new students by introducing foundational Java concepts and course structure.

SKILLS

Research Methods: Qualitative Interviews, Inductive Thematic Analysis
Human-Centered Design: User-Centered Design, Prototyping, Usability Evaluation
Programming: Java, JavaScript, Python
Systems: REST APIs, SQL

HONORS AND AWARDS

- Best Graduating Student, Department of Mathematics, Covenant University, 2020
- Best Quality Assurance Engineer, Q1 & Q2, Seamfix Limited, 2021

LEADERSHIP AND MENTORSHIP

Mentor, Designing Collective Systems Lab May 2024 – Present

- Mentored undergraduate and high school students on digital health research projects.
- Guided development of touchscreen-based tools for motor performance assessment.
- Mentees include participants from NSF REU programs (e.g., Georgia Tech) and high school research scholars.