OLUWAKEMI OPEYEMI LASISI

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Portfolio Website - Kemi codes (lasisi-kemi.github.io)

RESEARCH AREAS

Computing Education, Educational Technology, Curriculum Design, Human-Centered Design, Software Development, Girl Child Education

RESEARCH INTERESTS

My research interests are in computing education and educational technology. As a Microsoft Innovative Expert and Microsoft Certified Educator, my goal is enhancing learning outcomes and experiences through a human-centered design approach. I am passionate about improving curriculum design to support both students and educators, while also creating educational tools that address these needs. Additionally, I am committed to bridging the gender gap in ICT by addressing the unique challenges faced by girls in technology and advocating for greater inclusivity in the field.

EDUCATION

M.Ed in Educational Technology, **Olabisi Onabanjo University**, Ago-Iwoye, Ogun State, Nigeria, January, 2024 (GPA: 4.59/5.0)

B.Sc. (Ed.) in Biology Education, **Olabisi Onabanjo University**, Ago-Iwoye, Ogun State, Nigeria, January, 2024 (GPA: 4.36/5.0)

RESEARCH EXPERIENCE

Effect of Human-Centered Design (HCD)-Based Virtual Laboratory on Senior Secondary School Students' Academic Achievement in Biology

- **Description:** This project explores how Human-Centered Design (HCD) principles applied to a virtual laboratory can influence senior secondary school students' academic achievement in Biology. The research evaluates the effectiveness of the HCD-based virtual laboratory in enhancing learning experiences and improving academic outcomes.
- **Areas of Study:** Educational Technology, Human-Centered Design, Virtual Learning Environments

Comparative Study of Academic Performance in Biology between Public and Private Senior Secondary Schools

- **Description**: This research compares the academic performance of students in Biology from public and private senior secondary schools. By analyzing examination scores in Biology from each sample schools over three session, the study aims to identify performance differences and insights that could inform educational practices and policies.
- **Areas of Study:** Educational Assessment, Comparative Education

PUBLICATIONS IN SUBMISSION

Lasisi Oluwakemi. O., Prof. Omoniyi, T., Dr. Olurinola, O.D., Dr. Hassan, O.A., Aremu J.O. (2023): Effect of Human-Centered Design (HCD) - Based Virtual Laboratory on Senior Secondary School Students' Academic Achievement in Biology. A Master's Thesis submitted to the Department of Science and Technology Education, Faculty of Education, Olabisi Onabanjo University, Ago Iwoye.

Lasisi Oluwakemi, O. (2019): Comparative Study of Academic Performance in Biology between Public and Private Senior Secondary Schools**.** A BSc. (Ed) undergraduate research project, submitted to the Department of Science and Technology Education, Faculty of Education, Olabisi Onabanjo University, Ago Iwoye**.**

TEACHING EXPERIENCE

Computing Educator, Exquitec Education Technology   **2021-2024**

- Developed and designed curriculum and training materials for Microsoft Office Suite, Digital Literacy, Software Development, Programming, and Graphic Design.
- Designed and implemented STEM activities, robotics, and programming curricula for children to foster early engagement in technology and problem-solving skills.
- Trained individuals in Frontend Development, Graphic Design, Digital Literacy, and the use of Microsoft Office tools (Word, Excel, PowerPoint).
- Provided training and mentorship for students, preparing them to participate in local and international technology competitions.

Coding Instructor, Royal Hall Nursery and Primary School   **2021-2023**

- Taught Scratch programming to kids in the school's coding club, introducing them to coding basics.
- Created interactive lessons and projects to make learning coding fun and engaging for young learners.
- Supported students in developing problem-solving skills through hands-on coding activities.

Basic Technology Teacher, Tapa Community High School   **2020-2021**

- Taught Basic Technology to students from JSS 1 to JSS 3, covering foundational topics in technology and engineering.
- Developed engaging lessons to help students understand core principles of technology through practical examples.
- Encouraged hands-on learning to foster interest in technical subjects among junior secondary students.

Biology Teacher, Achiever's Model College   **2017-2018**

- Taught Biology to secondary school students as part of my teaching practice program.
- Developed lesson plans, classroom activities, and assessments to align with senior secondary school curriculum standards.
- Evaluated students' progress through tests and assignments, providing constructive feedback for improvement.

- Assisted with classroom management and contributed to school activities as part of the teaching practice requirements

STUDENT ADVISING

- Olayemi Sakirat Olayinka (Graduate Student) – Guided her Masters research project titled "Using ASEI-PDSI as an Enhancement Strategy in Academic Achievement pf Primary School Pupils in Basic Science in Yewa North Local Government Area of Ogun State" in 2023.
- Solahudeen Habeebat Titilayo and Fabule Adebola Patrick (Undergraduate) - Guided their group final year research project titled "Implementing Interactive Science Simulation for Classroom use (Using PHET Simulation)" in 2023.

INDUSTRY EXPERIENCE

Frontend Developer, Exquitec Education Technology   2022-2024

- Developed and implemented responsive web designs, driving seamless user experiences across multiple devices and platforms.
- Collaborated with designers to translate design concepts into functional and visually appealing web pages.
- Collaborated with back-end developers and other stakeholders to drive high- quality and error-free deliverables.
- Deliver engaging and informative tech classes, workshops, and training sessions, adapting teaching methods to meet the needs of diverse learners.

Training and Development Lead, Exquitec Education Technology   2021-2024

- Adapted training approach to support learning requirements and personal capacity.
- Created and implemented task performance checklists for completion by trainee and supervisor.
- Scheduled near and long-term training to comply with established training needs.
- Recorded video instruction to support remote students and offer training to large number of employees.

- Scheduled classes based on availability of classrooms, equipment and trainers.

PROFESSIONAL ACTIVITIES

WomenTechsters Fellowship (Software Development), Tech4Dev   2022-2023

- Completed intensive training in Software Development, specializing in Frontend Development.
- Developed and deployed responsive web applications using HTML, CSS, and JavaScript.
- Gained expertise in creating user-friendly and interactive interfaces, aligning with modern design principles.
- Collaborated with fellow participants on coding projects, enhancing problem-solving and teamwork skills.
- Expanded skills in version control (Git), debugging, and project deployment while adhering to software development best practices.

Innovation to Transform Education Training, Future Perspectives   2023

- Participated in training focused on innovative approaches to improving education systems and practices.
- Collaborated with other education professionals to develop strategies for transforming teaching and learning processes.
- Acquired skills in educational innovation, leadership, and the use of emerging technologies in education.
- Contributed to the development of solutions for enhancing educational equity and accessibility.
- Gained insights into building high-performance teams and fostering collaboration in educational projects.

LabXchange (Teacher Ambassador), Harvard University   2023-2024

- Engaged in professional development focused on enhancing STEM education through virtual labs and interactive teaching tools.

- Learned innovative strategies to integrate STEM concepts into classroom instruction using digital and blended learning methods.
- Collaborated with fellow STEM educators to improve student engagement and achievement in science through technology.

Microsoft Innovative Expert   2023-Present

- Recognized for excellence in integrating technology into education and fostering innovative teaching practices.
- Developed and implemented tech-driven educational strategies, enhancing student engagement and learning outcomes.
- Collaborated with educators globally to share best practices, resources, and solutions for using Microsoft tools in education.

SOFTWARE PROJECTS

BioLab - Virtual Laboratory on the Classification of Living Things ([Prototype](#))

- Simulation prototype to help learners identify and categorize organisms based on their characteristics using virtual lab activity.

Mother's Haven ([GitHub Link](#))

- A web application for mothers and their babies to provide a safe and comfortable environment to receive the care they need.

Tritravel - Transport Management System ([GitHub Link](#) and [Web Page](#))

- A transport management system used by the Girls in Science and Technology (GIST) Web Design Cohort 1 for their project after six months of training.

Grace Definition Church ([Web Page](#))

- A digital platform for Grace Definition Definition, providing information on services, events, and community activities. The website enhances engagement with congregation members through updates, online resources, and interactive features.

Ma'am TITI ([GitHub Link](#) and [Web Page](#))

- A website for Madam-TITI Restaurant featuring the menu, location, and specials, with options for online reservations and orders.

iHealth ([GitHub Link](#) and [Web Page](#))

- iHealth is a website for health tips for kids and a platform to donate for children in needs. Also, it is project by the Girls in Science and Technology (GIST) Web Design Cohort 2 after six months of training.

Exquitec – MIS ([GitHub Link](#) and [Web Page](#))

- A desktop management system which comprises of both students and workers portal.

VOLUNTEER EXPERIENCE

Girls' in Science and Technology (GIST) - Facilitator

- Advocate for gender equality in tech and promote girls' participation in science and technology through workshops, seminars, and public awareness campaigns.
- Recruit and coordinate volunteers, mentors, and instructions to assist with program delivery and mentorship.
- Organize "Girls in Science Day" events to inspire secondary school students to pursue STEM careers through talks, interactive demonstrations, and hands-on activities.
- Plan and execute a 5-day annual program for secondary school girls to explore ICT and inspire tech careers in celebration of Girls' in ICT Day.

LabXchange – Teacher Ambassador

- Effectively communicate the benefits of LabXchange to fellow educators, school administrations, and educational stakeholders
- Promote LabXchange's mission to facilitate global collaboration and knowledge sharing in science education.
- Work with teachers to incorporate LabXchange's interactive content, virtual labs, and educational modules into curricula, improving science education quality.

- Offer feedback to LabXchange from classroom experiences to help improve the platform and align it with educators' evolving needs.

AWARDS & ACHIEVEMENTS

WomenTechsters Fellow

- Software Development Track

Innovation to Transform Education Training Fellowship

- ITET Fellow

Microsoft Educators

- Microsoft Innovative Expert

Olabisi Onabanjo University, Department of Science and Technology Education (STED)

- Best Graduating Student in year 2019

PROFESSIONAL CERTIFICATIONS

- LabXchange Teacher Ambassador
  (LabXchange, Harvard University)
- Programming with JavaScript
  (Meta)
- Introduction to Front-End Development
  (Meta)
- Innovation to Transform Education Training (ITET)
  (Future Perspectives)
- WomenTechsters Fellowship (Software Development)
  (Tech4dev)
- WomenTechsters Bootcamp (Software Development)
  (Tech4dev)

- HTML, CSS, and JavaScript for Web Developers
  (Johns Hopkins University)
- Microsoft Clouding Computer
  (Microsoft Azure)
- Microsoft Office Specialist – Associate (2019)
  (Word, Excel, PowerPoint)
- Microsoft Certified Educator (MCE)
  (21st Century Learning Design)
- Web Design
  (SYNC INTERN'S)