SUNDAY AYEBIOWEI AMATARE

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RESEARCH INTEREST

Wireless Communications

Wireless Digital Twin

Networked Robotics

Open-RAN

Applied Machine Learning

EDUCATION

PhD Computer Science   August 2023 - Present

The University of Texas at Arlington

Advisor: Professor Debashri Roy

MS Computer Science   January 2021

University of Ibadan, Ibadan, Nigeria

Thesis: Predicting Customer Churn in Telecommunication Industry Using
            Convolutional Neural Network

Advisor: Dr. Adebola K. Ojo

BS Computer Science   October 2016

University of Ilorin, Ilorin, Nigeria

Thesis: Design and Implementation of an Educational Game Using Spatial Matrix

Advisor: Professor Rasheed G. Jimoh

SKILLS

- High level programming languages (Python, C++)
- Data manipulation (Pandas, NumPy, SciPy, Scikit Learn, TensorFlow, Keras)
- Data visualization (Matplotlib, Seaborn, Plotly, PowerBI)
- Database management (MySQL, MongoDB, MS Access)
- Computer networking (LAN/WAN Installation, Configuration and Maintenance)
- Web development (HTML, CSS, PHP, WordPress)
- Microsoft Office
- Teaching
- Technical writing
- Excellent Communication
- Leadership, Problem Solving, Critical Thinking & Emotional Intelligence.

WORK AND RESEARCH EXPERIENCE

Graduate Research Assistant   August 2023 – Present

Department of Computer Science & Engineering, The University of Texas at Arlington, USA.

Transformative Wireless Systems & Technology (TWiST) Lab

- Writes papers and magazines for publication.
- Routinely carry out data analysis and literature review.
- Routinely carry out paper reviews for Conferences and Journals.
- Mentoring undergraduate students in the lab.

Graduate Teaching Assistant   August 2023 – Present

Department of Computer Science & Engineering, The University of Texas at Arlington, USA.
- CSE 4322 – Software Project Management in Fall 2023
- CSE 1320 – Intermediate Programming in Spring 2024
- CSE 5344 – Data Mining in Summer 2024

IT Support Technician/Test Center Administrator   August 2021 – July 2023

Mack IV Consults/Highgrade Communications, Ibadan, Nigeria.
- Manage the organization's websites.
- Routinely administer Computer Based Tests.
- Routinely carry out system installation, troubleshooting and maintenance
- Perform Hotspot management (Wired/Wireless)
- Tutor and supervise new IT interns.

Graduate Research Assistant   April 2018 – January 2021

Department of Computer Science, University of Ibadan, Ibadan, Nigeria
- Assisted in preparing reports and papers for seminars and publication.
- Routinely carried out data analysis and literature review for professors
- Taught undergraduate students seminar and presentation.
- Performed examination proctoring and grading.
- Managed and maintained computer laboratory and equipment

Graduate Teaching Assistant   December 2016 – March 2018

Department of Computer Science, Federal Cooperative College, Kaduna, Nigeria
- Taught computer science courses (Python and Operating System) to a class of 65
- Prepared lecture notes and handouts
- Tested and graded students' work and offered feedback.
- Mentored some undergraduate students.
- Managed IT infrastructure in the department.

Teacher   February 2014 – October 2016

International Secondary School, Ilorin, Nigeria
- Taught computer studies and mathematics to a class of 55
- Prepared lesson plans and managed classroom materials
- Graded students work and offer feedback.
- Invigilated tests and examinations.

PUBLICATIONS

- **Sunday, A.,** M., Samson, & D. Roy (2024). Testbed Design for Robot Navigation Through Differential Raytracing. IEEE International Symposium on Dynamic Spectrum Access Networks, May 2024.
- **Sunday, A.,** G. Singh, M., Samson, & D. Roy (2024). RAGNAR: Raytracing Based Navigation for Autonomous Robots in Unstructured Environment. IEEE Global Communications Conference, December 2024 [Submitted].
- Gaurav, S., **Sunday, A**., D. Roy (2024). Self-Positioning Smart Surveillance using Autonomous Systems. IEEE Wireless Communications Magazine, July 2024 [Submitted].

- Oluwakemi, A. A, **Sunday, A. A**, & Nancy, C.W. (2021). Cryptocurrency Price Prediction Using Machine Learning Techniques. *Science Association of Nigeria: Securing the Nigerian Environment through Science, Technology and Innovation (STI), (pp. 54-55).*
- **Sunday, A.A**., & Adebola, K.O. (2020). Predicting Customer Churn in Telecommunication Industry Using Convolutional Neural Network Model. *IOSR Journal of Computer Engineering (IOSR-JCE), e-ISSN: 2278-0661, p-ISSN: 2278-8727, Volume 22, Issue 3, Ser. I (May - June 2020), PP 54-59,* https://doi.org/10.9790/0661-2203015459

ACADEMIC POSTERS AND CONFERENCES

- Presented a poster "Testbed Design for Robot Navigation Through Differential Raytracing" at IEEE DySPAN Conference (May 2024) in Washington, DC.
- Actively participated in 54th Annual (Hybrid) Conference and 60th Anniversary Celebration of the Science Association of Nigeria themed "Securing the Nigerian Environment through Science, Technology and Innovation (STI)" held at University of Ibadan, Ibadan, Nigeria, in June 2021.
- Presented a poster on my master's research project titled "Predicting Customer Churn in Telecommunication Industry Using Convolutional Neural Network Model" at University of Ibadan, Ibadan, Nigeria, in November 2020.
- Presented a seminar titled "Development of a File Encryption and Decryption Application Using Java "held at the Department of Computer Science, University of Ibadan, Ibadan, Nigeria, in March 2019.
- Participated in the 3rd Biannual Conference themed "Transition from Observation to Innovation (TOKI)" held at University of Lagos, Lagos, Nigeria in August 2019.
- Presented a poster on my bachelor's research project titled "Design and Implementation of an Educational Game Using Spatial Matrix" at University of Ilorin, Ilorin, Nigeria, in June 2016.
- Regularly attended and participated in postgraduate seminars of the Department of Computer Science at University of Ibadan, Ibadan, Nigeria.

PROFESSIONAL AFFILIATIONS

- Student member, IEEE   2024 - Present
- Student member, IEEE Communications Society (ComSoc)   2024 - Present

AWARDS AND RECOGNITION

- Graduate Dean's 2024 Summer Research Assistantship & Dissertation Fellowship   2024
- Jeff and Lisa Smith Outstanding Graduate Researcher Award   2024
- Honorable Mention Award for SCFR PhD Lightning Talk Competition   2024
- Represented CSE Department at the CoE Annual Banquet   2024
- Best Youth Corps Member of Federal Cooperative College Kaduna   2017

REVIEWER ROLES

- IEEE Global Communications (GLOBECOM) Conference   2024 - Present
- IEEE Local and Metropolitan Area Networks (LANMAN) Conference   2024 - Present
- IEEE DCOSS-IoT Conference   2024 - Present
- Elsevier Computer Communications Journal   2024 - Present

COMMUNITY SERVICE AND LEADERSHIP EXPERIENCE

Promotion and Review Volunteer   April 2019 - Present

Youth Alive Fellowship, Living Faith Church, Ibadan, Nigeria.

- Organize tutorials and assessment for STEM undergraduate students.
- Provide mentoring for prospective undergraduate applicants and some undergraduate students thereby empowering Nigerians future leaders through educational opportunities.

Presiding Officer   February 2019 – March 2019

Independent National Electoral Commission (INEC)

- Ensured a seamless voting process at my polling unit for the Oyo State House of Representatives and Gubernatorial Election.

President   December 2016 – October 2017

Education Development Goal Club (EDGC)

- Led a team of 5 members to host quiz competition, debate competition and spelling bee among 25 secondary schools in Kaduna, Nigeria.
- Organized sensitization workshop on the prospects of education for students and parents across 10 communities in Kaduna, Nigeria.

Sports and Games Director   November 2015 – September 2016

Nigeria Association of Computer Science Students (NACOSS), University of Ilorin, Ilorin, Nigeria.

- Organized departmental sports and games (football, basketball, volleyball, table tennis, snooker, scrabble, chess and ludo) competition for male and female students of the department of computer science in 2015/16 academic session.
- Led the department football team to win the 2016 Dean's Cup.

LANGUAGES

English | French (Beginner)

LEISURE ACTIVITIES/INTERESTS

Travelling | Research

REFERENCES

Available on request.