

# Ayano, Oluwafolake Ayobami

Email: [oluwafolake.ayano@gmail.com](mailto:oluwafolake.ayano@gmail.com)

## EDUCATION

PURDUE UNIVERSITY, WEST LAFAYETTE	PhD in Computer & Information Technology	2022
UNIVERSITY OF IBADAN, IBADAN	M.Sc Computer Science	2010
UNIVERSITY OF IBADAN, IBADAN	B.Sc. Computer Science (First Class)	2005
THE POLYTECHNIC IBADAN, IBADAN	National Diploma Computer Science (Upper Credit)	2000

## PROFILE

A skilled professional who applies practical industry experience and best practices in academic pedagogy to simulate real-life situations that prepare students for career success. Provide instructions in a way that challenges students to think analytically and exercise cognitive learning skills. Create a cooperative community in the classroom and model for students the importance of mutual respect and cooperation among all class members.

## PROFESSIONAL EXPERIENCE

### TAYLOR UNIVERSITY, UPLAND, INDIANA

*Assistant Professor*

*Aug 2023 – To date*

- Teaching and advising students.
- Continued Professional Development
- Service to the Department and Institution

### ROSE-HULMAN INSTITUTE OF TECHNOLOGY, TERRE HAUTE, INDIANA

*Visiting Assistant Professor*

*Aug 2022 – July 2023*

- Classroom and laboratory teaching of two to three courses per ten-week quarter.
  - Taught Database system (SQL)
  - Taught Introduction to Software Development (Python)
- Continued Professional Development
- Service to the Department and Institution

### GRADUATE SCHOOL, PURDUE UNIVERSITY INDIANA (Information Management and Analysis Office)

*Graduate Assistant: Database Programmer*

*Sept 2018 - to date*

- Automated business processes that resulted in saved time and optimal system performance using PL/SQL
- Reviewed and overhauled existing applications for enhanced functionality of the Graduate School Information Management and Analysis System.

## **ZENITH BANK PLC, NIGERIA**

*Banking Officer: Business Analyst*

*Jan 2018 – Aug 2018*

- Developed monthly Income Report Application for different banking products.
- Generated high-level income report for management's decision on daily and monthly basis- example includes – top 50 customers, Top 10 profitable branches in the country.
- Analysed and transformed data using Pentaho.
- Produced reports in dashboards using Business insight to aid result presentation.
- Designed standard reports for national banking regulatory bodies (Central Bank of Nigeria, EFASS) on the bank activities with Jasper Reporting tool. The turnaround time of report improved by 95%.

*Assistant Banking Officer: Software Developer*

*April 2013-Dec 2017*

- Developed a Fraud Check Application that monitors Internet Banking transactions for fraudulent transfers and reduced Online Banking fraud by 75%.
- Automated several bank applications to interface with the core banking application that is still in operation today.
- Responsible for the Automation of the Electronic Fund Transfer Process for the bank's subsidiaries in other African countries (Ghana, Sierra Leone, and Gambia).
- Automated the Posted Transactions Callover Process to replace existing daily printing of all posted transactions bank-wide and eliminated the cost of stationery and printing all daily transaction for 360 branches as of 2017.
- Coordinated software development, testing, and deployment to Zenith Bank's subsidiaries in other African countries (Ghana, Sierra Leone, and Gambia)

*Senior Executive Assistant: Software Developer*

*April 2008-March 2013*

- Developed software applications for various units of the bank that integrate with the core banking software to aid various business processes.
- Coordinated software project initialization and execution.

*Executive Assistant: Software Developer*

*April 2007-Mar. 2008*

- Coordinated Swift Service Unit, which includes request handling (i.e., creation of users, assigning rights to users, etc.), installed swift upgrades, and ensured 97% uptime of the server.
- Provided high-level support and administration to the SWIFT (Society for Worldwide Interbank Financial Telecommunication) server.

## **NIGER DELTA POLYTECHNIC BAYELSA STATE (National Youth Serving Corps)**

*Lecturer*

*Sept 2005 – Aug 2006*

- Taught computer science courses.
- Mentored freshman computer science students and provided guidance in course choices and career paths.

## **AWARDS**

- ACM Student Research Competition (SRC) 2021 Poster Competition Graduate Award 1<sup>st</sup> Place.
- Exemplary Academic Performance 2003/2004 Academic Session. Faculty of Science, University of Ibadan
- Exemplary Academic Performance 2002/2003 Academic Session. Faculty of Science, University of Ibadan.
- Exemplary Academic Performance 2001/2002 Academic Session. Faculty of Science, University of Ibadan.

## RESEARCH PUBLICATION

Ayano, Oluwafolake & Akinola, Solomon O. (2017). A multi-algorithm data mining classification approach for bank fraudulent transactions. African Journal of Mathematics and Computer Science Research. 10. 5-13. 10.5897/AJMCSR2017.0686.

## POSTER

Node-centric Community Detection in Evolving Networks, Oluwafolake Ayano. 2021 CMD-IT/ACM Richard Tapia Celebration of Diversity in Computing Conference. Sept. 2021

## PROJECTS

- Community Detection and Evolutionary Prediction in Dynamic Networks (PhD Research)
- Data Wrangling, Analysis, and Modelling using Python libraries and Machine Learning Techniques 2020
- Real Estate Prediction: Applied Machine Learning technique to make predictions using Real Estate Data 2019
- Data Mining Approach to Identifying factors contributing to motor vehicle collision using python (Panda, Mlxtend, Matplotlib) 2019
- Expansion of Cyber Attack Data from Unbalanced Dataset using Generative Adversarial Techniques. 2018  
An applied Cybersecurity research by Information Security Research and Education (INSuRE) on Problem of National Security.

## COMPETENCIES

- Software Development Tools: - **Python, Power Builder, C#, HTML, PLSQL, and PHP**
- Data analytic and visualization Tools: - **Excel, Tableau, SAS, Python and R**

## KEY SKILLS

Machine Learning Methodologies, Optimization Techniques, Random Forest, Ensemble Models, Data Mining & Analytics, Logistic Regression, Data Structure and Algorithm.

## CONFERENCES ATTENDED

Deep Teaching Residency	June 2023
Data Connect Conference 2022	June 2022
Grace Hopper Celebration 2021 (Scholar)	Sept. 2021
ACM Richard Tapia Celebration of Diversity in Computing Conference (Scholar)	Sept. 2021
Computing Research Association CRA-WP Grad cohort for women	April 2021
Computing Research Association CRA-WP Grad cohort	Mar. 2021
Grace Hopper Celebration 2020 (Scholar)	Sept. 2020
ACM Richard Tapia Celebration of Diversity in Computing Conference (Scholar)	Sept. 2020
AfroTech World 2020	Nov. 2020

## PROFESSIONAL MEMBERSHIP

Member, Association of Computing Machinery (ACM)  
Member, Information Security Research and Education (INSuRE)  
Member, Center for Education and Research in Information Assurance and Security (CERIAS)

Member, Women in Cybersecurity (WiCyS – Purdue Chapter)

## PROFESSIONAL CERTIFICATIONS

- Oracle Autonomous Database Specialist 2020
- Collaborative Institutional Training Initiative (CITI) 2019
- Oracle Certified Administrator (OCA) 2010
- Oracle Database SQL Expert 2010
- ITIL version 3 Foundation 2008

## PROFESSIONAL TRAINING

- Data Science with Python Certification 2020
- Oracle Autonomous Database Specialist 2020
- Collaborative Institutional Training Initiative (CITI) 2019
- Java Web Application Certification – 2016
- Developing Java Web Applications Learning Tree International (Onsite), Nigeria 2016
- Building REST and SOAP Web Services; Learning Tree International (Onsite), Nigeria 2016
- Developing Enterprise Java Applications with Spring and Hibernate; Learning Tree International (On site), Nigeria 2016
- ASP.NET Web Form 2015
- C# Programming Language 2015
- Oracle Certified Professional (OCP) 2011
- Oracle Certified Administrator (OCA) 2010
- Oracle Database SQL Expert- 2010
- Information Technology Infrastructure Library- ITIL Foundation 2008