

PROFILE SUMMARY

An avid researcher with interests in Machine Learning, Natural Language Processing, Artificial Intelligence, Cybersecurity, Smart Systems and AI Safety. Skilled and experienced in data manipulation and inferential analytics

EDUCATION

Ph.D. , Computer Science and Engineering, University of Louisville, Kentucky	May 2023 (Expected)
M.Sc. , Computing: Information Engineering, Robert Gordon University, Aberdeen, Scotland	Dec 2015
B.Sc. , Computer Science, Covenant University, Ota, Nigeria	June 2012

RELEVANT COURSES

•Data Mining • Combinatorial Optimization and Modern Heuristics • Database Security • Network Security • Machine Learning • Internet Applications Design and Development •Database Systems •Performance Evaluation of Computer System • Information Security •Big Data •Software Development •Web Development •Document-Oriented Database

TECHNICAL SKILLS

- **Database-** MySQL, MSSQL Server, Filemaker, Amazon S3, MongoDB and PostgreSQL
- **Programming-** Python, SQL, SAS, MATLAB, Java, PHP, Laravel, Javascript, JSP, C/C++
- **Machine Learning Framework:** TensorFlow, scikit-learn, XGBoost, NLTK
- **Software:** MS Office Suite, SAS Enterprise Guide, WEKA, SAS JMP, SIMCA
- **Data Visualization:** Power BI, Grafana

EXPERIENCE

CSE Department, Speed School, University of Louisville	Kentucky, US
Graduate Teaching Assistant	Aug 2021 – Present

- Worked as a graduate teaching assistant for Python and C/C++ introductory classes for freshmen in the Speed school of Engineering
- Delivered over 15 full lab lectures to a classroom ranging from 5 to 30 students each
- Assisted in the grading and evaluation of about 100 students for 2 college semesters
- Mentored a core 5+ students over the course of 2 college semesters

Cyber Security Lab, University of Louisville	Kentucky, US
Graduate Research Assistant	Aug 2018 – Present

- Created a study and published a paper on Authorship Analysis of Translational Algorithms using bag of words and parts of speech n-grams on text translated from Japanese to English - <https://ieeexplore.ieee.org/document/9364542>
- Currently carrying out a collaborative study and developing a framework for a survey of surveys in AI Safety to create a road map to help new and existing researchers in the field of AI safety navigate the
- Researching on how to estimate an individual's IQ from written text by reviewing existing research in IQ estimation and authorship attribution & identification using written text
- Developed a python algorithm to clean and prepare a text dataset (Big Data) of text and a corresponding IQ of over 300,000 samples gathered from a population of over 2000 individual twitter users
- Developing a Deep Learning based automatic IQ estimation system using the text dataset cleaned above
- Software Tools: Python, Excel, NLTK, MATLAB, Tensorflow

Boehringer Ingelheim, Animal Health	Missouri, US
Data Science Intern	Feb 2021 – Aug 2021

- Developed ETL (Extract, Transform and Load) algorithm using python to facilitate seamless processing of manufacturing data from multiple sources
- Developed a plugin-like algorithm using python that sends, in real-time, the results of a Deep Learning model to Grafana, a timeseries data visualization platform
- Developed an Algorithm using C# to run Nelson rules on process control datasets
- Created multiple control charts using SAS JMP
- Developed an Algorithm using python to load excel data into MSSQL database
- Developed batch evolution models for real-time process monitoring using SIMCA
- Developed statistical models for process data using SIMCA
- Mastered time series and process control tools in a short time (SAS JMP, SIMCA & Grafana)
- Software Tools: Python, Grafana, SAS JMP, SIMCA, C#, SQL

Office of the President, University of Louisville	Kentucky, US
IT Support Graduate Assistant	Aug 2018 – Feb 2021

- Designed and implemented a software application for scheduling meetings for the university overseers' meetings and signing in at the meetings which reduced the time taken to setup and conduct overseers' meetings
- Designed and implemented a web application that allows the search for University experts based on research area which made it possible for those outside the university to connect more with researchers in the university based on their interests

- Developed an API to integrate the course catalog from the graduate school website with the individual department's page on the university website to allow students gain easy access to their course catalog
- Proactively developed an algorithm to crawl the graduate school website to find and make bulk edits which reduced the time taken to make changes on the website
- Developed a web application to nominate and vote for Outstanding and Distinguished faculty awards which was previously done manually
- Developing a seat assignment application to be integrated into an Events management Filemaker application
- Assist with setting up multimedia and sound systems for university board and president's meetings and providing the IT needs for these meetings
- Troubleshoot and diagnose the root cause of software and hardware failures and proffer and implement solutions to fix these failures for the President's office and all its stakeholders
- Software Tools: Python, Filemaker, PHP, HTML5, Bootstrap, Excel, Lansweeper, Node.js, Remote Control Viewer

EL Toro IP Targeting

Kentucky, US

Data Science Intern

July 2019 – Sept 2019

- Developed ETL (Extract, Transform and Load) processes using AWS Lambda and Step-function to facilitate seamless processing of large-scale datasets from Amazon S3, MongoDB and PostgreSQL
- Built machine learning data pipelines and API
- Developed proof of concept models to extract patterns and trends in data using machine learning algorithms and statistical techniques such as hypothesis testing, sampling etc.
- Software Tools: Python (NumPy, SciPy, Pandas, scikit-learn, etc), XGBoost, Scikit-learn, AWS, Elasticsearch, SQL, WEKA, Amazon SageMaker, Git, Slack

Speed School of Engineering, University of Louisville

Kentucky, US

Data Analytics Graduate Assistant

Aug 2017 – July 2018

- Developed ETL (Extract, Transform and Load) algorithm using python to facilitate seamless transformation to XML of large-scale speed school faculty data from MSSQL Server
- Developed a Power BI dashboard to visualize and compare how speed school of engineering ranks with other engineering schools in the US, identified factors that affected their rankings and made recommendations of how influencing these factors can increase their ranking position
- Developed machine learning models using student enrollment data to predict "time to graduate" for the students
- Software Tools: Python, Power BI, Excel, SQL, WEKA, Digital Measures

Mega Chicken Restaurants

Lagos, Nigeria

IT Manager

Nov 2016 – Dec 2016

- Founded and established the IT department for the organization
- Recommended and set up digital point-of-sale machines in new outlets as part of the migration from manual systems which led to a reduction in customer wait times, end-of-day account reconciliation and allowed for easy consolidation of sales data
- Created and managed social media platforms that drove sales and increased the online reach of the restaurant
- Designed a new framework for adapting and augmenting company website to allow for online orders using PHP, HTML & CSS

Concept Nova, a subsidiary of Concept Group

Lagos, Nigeria

Web Developer

May 2016 – Nov 2016

- Designed and developed a yellow pages-like web application that contains all concept group employee contact information to allow for easy collaboration among employees in various departments using a PHP framework (Laravel)
- Was an active member of the team that revamped the Company's Career portal to improve user experience using Laravel
- Was the lead software engineer of the team that designed and developed an online asset disposal platform for Rosabon Financial Services (A sister company) which led to faster and easy disposal of assets for the organization and its clients
- Mastered Laravel framework and bootstrap in a short time

PROFESSIONAL CERTIFICATIONS, AFFILIATIONS AND ACHIEVEMENTS

CEH V9 – Certified Ethical Hacker

ITIL Foundation – ITIL IT Service Management

MCSA – Microsoft Certified Systems Associate

Student Member – Institute of Electrical and Electronics Engineers (IEEE)

Scottish Innovative Enterprise Hack (Second Place) – Development of an Online Health Diagnostic System

Barclays OpenMindHackathon (Finalists) – Development of an Interactive Banking App for Barclays

RGUHack – Development of an Online First aid tool for a Third world Country

INVOLVEMENT AND AWARDS

Lead Consultant, Student Organization Advisory Board (SOAB), UofL

Secretary, Multicultural Association of Graduate Students (MAGS), UofL