AUSBETH AGUGUO

email: chiemekaaguguo@gmail.com | portfolio: https://ausbeth.github.io/

Professional Summary

Enthusiastic and impact-driven software engineer with proven track record of addressing large-scale societal challenges through innovative solutions. Proficient in Machine Learning with a specialisation in Deep Learning techniques, complemented by expertise in Data Analytics and Analysis, Cybersecurity and Object-Oriented programming, all built upon a solid foundation in modern software engineering practices. Resilient problem-solver with a team-oriented mindset. Collaborates productively with both technical and non-technical teams. Strong passion for breaking down complex, data-driven problems in businesses with the use of technical and soft skills.

Education

NILE UNIVERSITY   *Abuja, Nigeria*
M.Sc Computer Science   *Feb 2022 – Jul 2024*
- **Grade:** 2nd Class Honours Upper Division, **CGPA:** 4.46/5.0
- **Dissertation:** An Ensemble of Unsupervised Deep Learning Models for Credit Card Fraud Detection
- Led a team of 5 students to successfully automate home appliances using IoT, completing the project on time and presenting to an audience of 30 people.

BAZE UNIVERSITY   *Abuja, Nigeria*
B.Sc Software Engineering   *Sep 2017 - April 2021*
- **Grade:** 2nd Class Honours Upper Division, **CGPA:** 3.44/4.0. Awarded Best Graduating Student 2021
- **Dissertation:** The Detection and Prevention of Sniffing in Networks
- Selected by the University for the Cyber Security Awareness Month Programme based on leadership potential and academic excellence.

Skills

Areas of Expertise: Machine Learning & Deep Learning | Data Analytics & Analysis | Statistics | Numerical Modelling | Cybersecurity | Data Structures & Algorithms | Digital Marketing | Project Management | High-Performance Computing (HPC) | Cloud Computing | Internet of Things (IoT)

Programming Languages: Python | SQL | Java | C++ | C# | Linux | HTML | CSS | JavaScript

Technologies and Tools: Power Bi | Microsoft Excel | Tableau | MySQL | Tensorflow | Salesforce | GitHub | AWS | Containerisation (Singularity, Docker) | Arduino | Graphics modelling (C++)

Experience

WELLCOME SANGER INSTITUTE   *United Kingdom (Remote)*
Participant, Future Innovators Mentorship Programme   *Jun 2024 – Present*
Successful in a competitive selection process to be in the first cohort of this training programme.
- Contributed to software development projects focused on supporting biological science research using agile methodological approach
- Used **Python** to implement functionalities for optimisation of software on HPC clusters.

- Gained access to world-class training and resources including presentation skills training, career coaching, and job preparation training.

AFRICA FORESIGHT GROUP   *Remote*
Participant, AHEAD Programme   *Mar 2024 – Present*
Successful in a competitive selection process to be in the first cohort of this training programme.
- Gained deep understanding of Africa's historical and economic evolution, with insights into the continent's role in the global economy and opportunities for growth.
- Developed essential business skills through modules, with a focus on African markets.
- Engaged in collaborative assessments with a diverse network of professionals across African countries.

PKO TECHNOLOGIES LTD.   *Rivers, Nigeria*
Software Engineering Intern   *Jan 2021 – April 2021*
Worked on enhancing surveillance systems and improving business productivity through analytical solutions.
- Used **Python** to automate emails for customer engagement and promotion broadcast, boosting customer retention by 30%.
- Analysed sales data with **Python** to identify profitable customers and products.
- Integrated **Java** with Microsoft Excel to improve productivity when managing large spreadsheets.
- Enhanced Company's mobile database with proficient functions using **SQL**.
- Facilitated project management by collaborating with software development and other departments.
- Strengthened user security by implementing good password policies

Extracurricular Activities

Mastercard Virtual Experience Program Participant with Forage (2022)
- Designed a phishing email simulation for a business, and identified which areas needed more awareness on phishing based on the results from the simulation.
- Designed a presentation to create awareness and provide training for teams with low results from the simulation to reduce the risk of an attack.

SAP Virtual Experience Program Participant with Forage (2022)
- Identified and mitigated password flaws and phishing attempts for a client's most sensitive accounts.
- Installed Windows Server 2019 on a virtual machine to harden a client's system from my end.
- Provided analysis and recommendations on a client's systems and identity.

JP Morgan Chase & Co Virtual Experience Program Participant with Forage (2022)
- Interfaced with a stock price data feed.
- Implemented JP Morgan Chase frameworks and tools (Perspective open-source code) for data visualisation to create a chart for a trading dashboard.

Projects and Achievements

- **Anomaly Detection**   *Jun 2023*
  Designed a **Python** based detection tool using Long-Short Term Memory Networks (LSTM) deep learning to discover and handle anomalies in large datasets.