

PROFESSIONAL PROFILE

# Dr. Christian Egwim

**Senior AI Engineer** | Author & Speaker | **Business Strategist** | UK Global Talent

Digital technologist specializing in artificial intelligence, big data analytics, machine learning, IoT, cloud computing, and expert systems.

 Artificial Intelligence

 Big Data Analytics

 Machine Learning

 IoT

 Cloud Computing

 Expert Systems

 [www.linkedin.com/in/christianegwim](https://www.linkedin.com/in/christianegwim)

 AWS Certified Machine Learning – Specialty

# Skills & Expertise

## ★ Top Skills

Pivotal Cloud Foundry (PCF)

Expert

Agentic AI

Expert

Fraud Engineering

Advanced

Machine Learning

Expert

Data Science

Expert

## 🗣 Languages

English

Professional Working

## 🌟 Certifications



AWS Certified


Machine Learning – Specialty



Big Data Developer


Professional Certification

## 🏆 Honors & Awards



Ph.D. Studentship

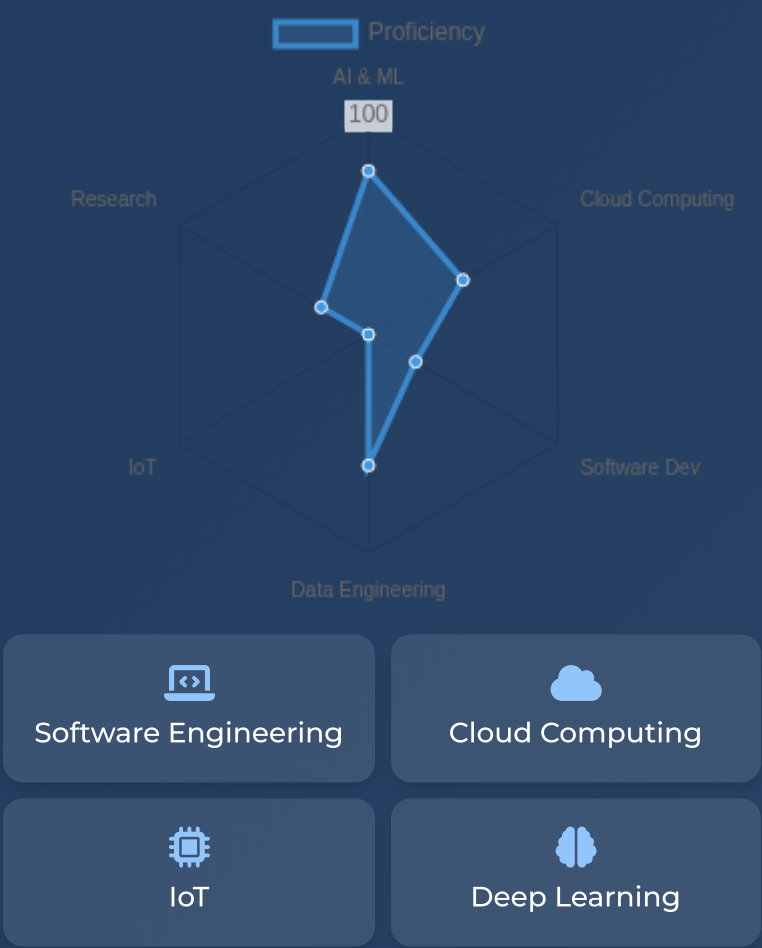
University of Hertfordshire



Associate Fellow

AFHEA

## </> Technical Competencies



# Professional Experience

## Key Roles

Senior AI Engineer

bigspark

Oct 2024 - Present

AI PipelinesMLOpsStakeholder Engagement

Principal AI Engineer

NatWest Group

Oct 2024 - Present

Financial AI SolutionsTeam MentorshipArchitecture

AI Engineer

University of Hertfordshire

Apr 2024 - Oct 2024

AI/ML ModelsData ProcessingResearch

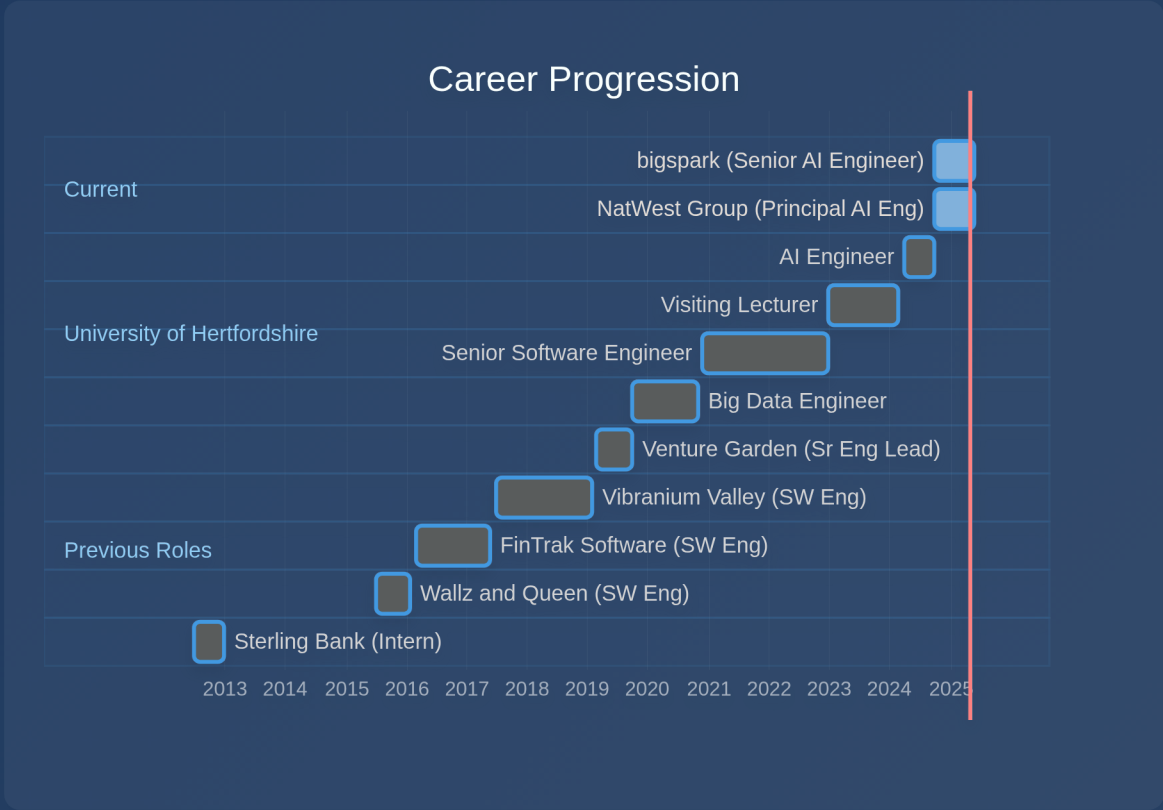
Senior Software Engineer

University of Hertfordshire

Dec 2020 - Jan 2023

Data ManagementDigital ToolsAcademic Papers

## Career Timeline



## Key Achievements

- ✓ Architected and implemented AI-driven solutions for financial model interaction
- ✓ Designed and developed AI models using machine learning, deep learning, NLP and computer vision
- ✓ Led data assembly, management and analysis of large-scale datasets
- ✓ Authored multiple academic papers published in leading international journals

# Educational Background

## Doctor of Philosophy (PhD)



Applied Artificial Intelligence

University of Hertfordshire, United Kingdom

Completed

Research focus:

Artificial Intelligence

Machine Learning

Predictive Analytics

Data Science

Environmental Modeling

Achievements:

✓ PhD Studentship Award

✓ Associate Fellow (AFHEA)

✓ Multiple Published Research Papers

## Master's Degree



Computer Science

African University of Science and Technology

Completed

Algorithm Design

Software Engineering

Database Systems

Computer Networks

## Bachelor of Science (B.Sc)



Computer Science

University of Ibadan

Completed

Programming Fundamentals

Data Structures

System Analysis

Computer Architecture

# Publications & Research

## Artificial Intelligence for Deconstruction

Current state, challenges, and opportunities

AI Construction

Explores the application of AI technologies in deconstruction processes, identifying current implementations, challenges, and future opportunities.



## A Systematic Review of Blockchain for Energy Applications

Journal publication

Blockchain Energy

Comprehensive review of blockchain technology applications in the energy sector, examining use cases, benefits, and implementation challenges.



## Applied Artificial Intelligence for Predicting Construction Projects Delay

Research paper

AI Construction

Proposes AI-driven predictive models to anticipate and mitigate delays in construction projects, improving project management efficiency.



## Boruta-grid-search Least Square Support Vector Machine for NO2 Pollution Prediction

Using big data analytics and IoT emission sensors

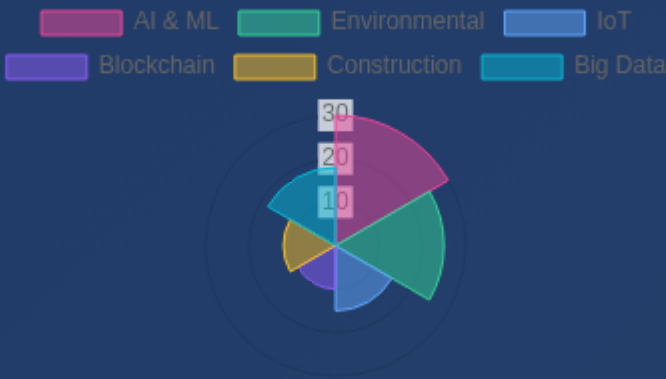
Machine Learning Environment IoT

Novel approach combining feature selection and ML techniques for enhanced pollution prediction accuracy using sensor data.



## Research Focus Areas

- Artificial Intelligence & Machine Learning
- Environmental Monitoring & Prediction
- Blockchain Technology Applications
- Construction Industry Optimization
- IoT & Sensor Networks
- Big Data Analytics



## Ensemble of Ensembles for Fine Particulate Matter Pollution Prediction

Using big data analytics and IoT emission sensors

Ensemble Learning Pollution IoT

Advanced ensemble learning approach for high-accuracy particulate matter predictions from heterogeneous sensor data sources.



5+

Published Research Papers

Focus on:

- Predictive Analytics
- Environmental Modeling
- AI Applications

# Technology Stack

## Programming Languages

 Java  Python  JavaScript  C#

## Tools & IDEs

 Visual Studio  Android Studio

## Databases

 MS SQL  SQLite  MongoDB

 Elasticsearch

## Build Tools

Gradle Maven Ant MS Build

## CI/CD Solutions

 SVN  Go  Jenkins  Docker

Vagrant Chef CruiseControl.NET

## Frameworks

 Angular  .NET Framework SignalR

REST API ASP MVC Nhibernate

 jQuery

## Mobile Development

 Java  Android Framework Volley

D3

## Testing

Selenium NUnit

## UX Design

 HTML5  Bootstrap  CSS

 JavaScript Photoshop Fireworks

Dreamweaver Web Matrix

9/10

AI & ML Technologies

8/10

Software Engineering

9/10

Data Engineering

8/10

Cloud Technologies

7/10

UX/UI Design