IKECHUKWU COLLINS

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PERSONAL PROFILE

I am a postgraduate student at University of St Andrews with many years of experience implementing software that leverages Artificial Intelligence in the financial technology industry. I am passionate about computer science, with a focus on artificial intelligence and the way it impacts our everyday lives. I am looking for an exciting role in software, engineering, and development where I can leverage my knowledge of data exploration and analysis, implement impactful AI solutions, and challenge and improve my software skills.

EDUCATION

University Of St Andrews   **Sept 2021 – Present**

MSc, Artificial Intelligence

Key modules: Information Visualization, Language and Computation, Machine Learning, Signal Processing (Sound, Image, Video), Artificial Intelligence Practice.

Loughborough University   **Sept 2015 – July 2018**

BSc (Hons.), Mechanical Engineering (1st Class)

Key modules: Robotics and Control, Mathematics for Mechanical Engineering 3, Computer Control and Instrumentation, Engineering Computation.

Project: **Overcoming 3D Printing's Greatest Weakness**, Final year project identifying the effect of microstructure on the strength of 3D printed structures using ASTM D638 samples printed with fused deposition modeling printers. Used excel and visual basic to generate GCODE required to print the test samples.

EXPERIENCE

Sankore Investments

AI Research Engineer   *Oct 2020 – Aug 2021*

- Redesigned an investment bot system to give users access to the capital market and alternative investment instruments using various social media platforms, thus improving user engagement by 20%.
- Spearheaded the development of an web application written with Django that analysis the fixed income market and provides insight to improve investment decisions and trades.

Intern, Artificial Intelligence Unit, Innovation Team   *Dec 2018 – Oct 2020*

- Designed a text extraction tool using OpenCV and tesseractOCR in python for validating user information using images of national identification documents to speed up KYC processes.
- Upgraded chat bots for various commercial banks to provide more financial services to clients. This entailed upgrading a financial API system written in JAVA, which uses a microservice architecture to include more transactional operations.

Signal Alliance Limited

Intern, Software Department   *July 2016 – Sept 2016*

- Gained knowledge on various programming languages such as HTML, GNU Octave and Python.

- Conducted competitive analysis for technological solutions and improvements for a pension management platform.

Intern, Accounts Department   *July 2015 – Aug 2015*

- Migrated company invoices, purchase orders and other transactional data to Microsoft Dynamics NAV to improve business processes.
- Reconciled financial accounts using bank statements and implemented solutions to ease the collation of receipts and invoices.

PROJECTS

Bertillon FingerPrint API

- Developed an API system for detecting a fingerprint in a video stream using Python and OpenCV.

Ola Wealth Advisor

- Developed a personal wealth advisor for investing in the Nigerian capital market using social media platforms like whatsapp, telegram, and facebook messenger.
- Developed an microservice to link the Wealth.ng Investment API system to the bot system.
- Converted the microservice responsible for performing the Artificial Intelligence operations from Java to Python to leverage more well-known natural language processing techniques.

PERSONAL DEVELOPMENT

Coursera

Deep Learning Specialization, Deeplearning.ai   *July 2018 – Sept 2018*

Five course specialization covering introduction to neural network and deep learning, convolutional neural networks, hyperparameter tuning, ML sequence models and structuring ML projects.

Machine Learning, Stanford University Online   *Aug 2016*

MOOC Course providing a broad introduction to machine learning, data mining, and statistical pattern recognition.

TECHNICAL SKILLS

LANGUAGES*: Java, Python, JavaScript, MATLAB, HTML, CSS*

LIBRARIES AND FRAMEWORKS*: Tensorflow, Keras, Spring Framework, Django, Flask, Scikit Learn, OpenCV, Node.js, Plotly, Matplotlib, Numpy, ExpressJS, jQuery.*

OTHERS*: Rest API, Microservices, Git, Linux, Siemens NX. MongoDB, Postgres, Computer Vision, Natural language processing, Amazon S3 and EC2, Jenkins, BASH, Data mining and Visualization techniques with d3.js, SPSS, and Tableau.*

VOLUNTARY EXPERIENCE

STEM Ambassador, Wolfson School of Mechanical & Manufacturing Engineering, Loughborough

- Volunteered for the 2016 FIRST Lego League National Competition targeting children with interest in robotics.
- Volunteered for RoboGals 2018 events focused at increasing the number of females studying engineering at a tertiary level.

REFERENCES (Available on Request)