

# ISAAC COLLINS

Data Engineer | ETL Workflows | AI Solutions | Scalable Systems

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## SUMMARY

Experienced and detail-oriented engineer with a strong foundation in designing and optimizing scalable data pipelines and ETL workflows. Proficient in Python, Scala, Javascript with a solid academic and professional background in Artificial Intelligence and Engineering. I have collaborated with cross-functional teams to . I have a zeal to translate complex data challenges into actionable insights and a passion for solving real-world problems by delivering high-quality production systems.

## WORK EXPERIENCE

### Quantexa Limited

Data Engineer 09/2022 - Present

- Redesigned the existing entity parsing system to streamline and simplify client onboarding workflows and speed up customer ETL pipelines.
- Enhanced parsing accuracy of our entity system and refined entity resolution guidelines in collaboration with the team in order to help clients generate better network relationships with their data and use them to inform business decisions.
- Played a key role in developing a system to extract entities from Japanese addresses, enabling the company to gain an initial foothold in the Asian market. This work was instrumental in supporting the company's successful \$175 million Series F funding round.

### Afrowatch Inc

Chief Technology Officer 04/2023 - Present

- Developed and launched a full stack video streaming platform with JavaScript and AWS to deliver curated African animated content to a global audience.
- Built a Python based AI Language Dubbing system allowing users to generate text and audio in over 7 African languages.
- Worked with the CEO to negotiate and secure licensing agreements with leading African animation studios, expanding the platform's content library.

### Sankore Investments

AI Research Engineer 09/2020 - 08/2021

- Redesigned and optimized an investment bot system in Python and Kotlin, enabling user access to capital markets and alternative investment products via social media platforms, resulting in a 20%+ increase in user engagement.

Intern, Artificial Intelligence Unit 12/2018 - 09/2020

- Spearheaded the development of an analysis tool using Python to provide more insight into the fixed income market to improve investment decisions and trades.
- Designed an AI text extraction tool for validating user information using images of national identification documents to speed up KYC processes.

### Signal Alliance Limited

Intern Software Development 07/2016 - 08/2016

- 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 06/2015 - 08/2015

- 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.

## SKILLS

### Programming Languages

Python • Java • Javascript • Scala • HTML • CSS • MATLAB

### Web Development

Django • FastApi • Flask • Spring • REST • ExpressJS • Akka

### Cloud and Infrastructure

AWS • GCloud • Linux • Jenkins

### Big Data and ML

Apache Spark • Databricks • Tensorflow • ScikitLearn • OpenCV • LangChain • Airflow

### Other Skills

3D Printing • Agile development practices (Asana & Jira) • Figma

## EDUCATION

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### University of St Andrews

#### MSc Artificial Intelligence

2021 - 2022

Grade: Distinction

Project: AI Forecasting Of Capital Market Instruments

- Combined neural networks variations with economic and market indicators to predict capital market instruments.
- Used model agents to backtest trades in order to determine the optimal settings to configure.

### Loughborough University

#### BSc Mechanical Engineering

2015 - 2018

Grade: 1st Class

Project: Overcoming 3d printing's greatest weakness

- Tested the effect of microstructure design on tensile strength of 3d printed materials
- Designed and built a GCODE generation system for ASTM D638 testing samples using Excel and Visual Basic.

## PROJECTS

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### News Aggregator

2022

- Built a news consolidation SDK that collates news articles from multiple sources and leverages AI to summarize content and eliminate duplicates. <https://github.com/collinsikechukwu10/news-manager>

### Bertillon Labs

2020

- Consulted and built the initial prototype of a mobile fingerprint scanning solution for identity verification and KYC services for financial and educational institutions. <https://bertillonlabs.com/>

### Ola Wealth Advisor

2019 - 2021

- While working at Sankore Investments, I revamped an investment bot system, enabling users to access the Nigerian capital market and alternative investment products through Facebook Messenger, Telegram, and WhatsApp. <https://wealth.ng/wealth/intro>

## CERTIFICATIONS

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### Deep Learning Specialization

Deeplearning.ai

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

### Machine Learning Course

Stanford University Online

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

## REFERENCES

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Available on request

## VOLUNTEERING

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### Loughborough University

#### STEM Ambassador

2016 - 2018

- Collaborated with the Wolfson School of Mechanical Engineering to setup open days for prospective students.

### Robogals , Loughborough

#### STEM Volunteer

2018

- Volunteered to organise and facilitate an event aimed at encouraging young girls to work in STEM related fields.

### First Lego League

#### Student Volunteer

2016

- Worked as a volunteer to organize and setup the venue and manage over 40 teams from all over the UK for the First Lego League Finals competition in Loughborough.

## LANGUAGES

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English • Igbo • French