

# Oduguwa Damilola

Software Engineer (Machine Learning)

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Github: <https://github.com/damilojohn>

## EDUCATION

University of Lagos, *B.Sc Computer Engineering*

## SKILLS/TECHNOLOGIES

- **Programming Language** : Python
- **Frameworks** : Pytorch , Django
- **Cloud** : AWS
- **MLops** : Docker , Kubernetes , Jenkins , Git , Github Actions , Kubeflow , MLflow
- **Misc** : Data Structures and Algorithms, Test-Driven Development.
- **Languages** : English (Fluent)

## EXPERIENCE

**Nithub Unilag AI Research, Lagos** - *Software Engineer (Machine Learning)*.

November 2021 - PRESENT

- Worked together with a team of data scientists and data engineers to build a traffic light optimization system with deep learning
- Curated a dataset of traffic light data
- Built a Yolo model for object detection
- Built a cloud orchestration system with kubernetes and hosted an inference api on AWS.
- Collaborated on a Research Paper on the Traffic Light Optimization system

## Projects

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### Text Descrambling :

- A transformers based language model that takes incoherent sentences and re-arranges them into their correct grammatical form .
- This project was chosen as an exploration of the ability of Large Language models to learn any seq2seq relation using an encoder-decoder framework. The Text Descrambler is a deep learning model that uses the transformers encoder-decoder architecture using BERT's weight for both the encoder and the decoder part of the model .

### PlayList Generator:

- Using Semantic search and sentence-embeddings to find similar songs to a given text input and generate a song's playlist based on the semantic meaning inferred in the embedding of the text input.

#### **Open source contributions :**

- Contributed on the Ivy Machine learning repository( a code transpiler for transpiling code between deep learning frameworks ).
- Ivy uses ideas from template metaprogramming and builds a high level abstraction layer over common deep learning frameworks to transpile code from one deep learning framework to another (such as from pytorch to tensorflow).
- I contributed by helping to implement several Pytorch functions in the functional backend and frontend of the code graph transpiler engine .