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Kenechi Franklin Dukor

Education

2012–2016 **University of Lagos – BS(Hons), Mechanical Engineering**.
GPA: 4.38/ 5.0

2017-2019 **Other Certifications**.

- Machine Learning, Coursera
- Deep Learning Nanodegree, Udacity
- Deep Reinforcement Learning Nanodegree, Udacity

Skills

Programming Python, C#, ASP.NET, VueJs(basic), HTML, CSS, Javascript, LateX
Tools Git, PyTorch, Tensorflow 2.0, Scikit-Learn, NumPy, Pandas, VS Code, Linux, Jupyter Lab

Planning Agile, SDLC
Tools Github, Bitbucket, Microsoft Visio, Notion, Trello

Work Experience

Oct. 2018 – Present **Wapic Insurance Plc**, Software Engineer .

- Developed applications using C#, ASP.NET, React and Python, that automate the insurance processes for retail and corporate customers.
- Mapped out the claims process in preparation for a digital transformation, as well as developed a process flow which suggests improvements on the current process.
- Developed a ChatBot to enable customer engagement on the company's website while human agents are offline.
- Developed a car classification model to ensure images uploaded during purchase of motor insurance policy are cars.

Jan. 2018 – June 2018 **Herzer Research Group, University of Lagos**, Research Intern .

- Learned to develop and solve complex real life problems using mathematical representation.
- Applied the Galerkin's Method of weighted residuals to solve problems of heat flow in surfaces.

Jan. 2017 – May 2017 **San-Latunag Limited**, Design Engineer .

- Analysed and designed HVAC&R systems for Residential and Commercial building using AutoCAD and some other special tools for estimating cooling load.
- Supervised the installation of the HVAC units on site.
- Developed an excel sheet for the company, which contains a compilation of the relevant resources for quick computation of cooling load estimate for a building.

Research Experience

Thermal Performance Analysis of Rough Micro-Fins with Variable Cross-Sections [Published].

- **Goal**: Develop a mathematical models that describes the behavior of smooth and rough micro fins of different shapes (cylindrical, rectangular, hyperbolic and parabolic) under temperature dependent thermal properties
- **Method**: Galerkins's Method of Weighted Residuals was used as a method of solution (analytical method) to solve the models. The result were compared with experiments results.
- **Outcome**: The rough micro-fins performed better at heat removal. This is because of roughness can be seen as extended fins.
- **Recognition**: A paper which describes the research for cylindrical shaped fin was published at International Journal of Manufacturing and Material Engineering **[paper]**

Paper review: Assigning a Grade: Accurate Measurement of Road Quality Using Satellite Imagery by Gabriel Cadamuro,Aggrey Muhebwa and Jay Taneja , .

- **Goal**: To review selected papers from ML4D at NeurIPS and possibly make improvements on the methods applied by the author. (This is an outcome AI Saturdays Lagos Research Track)
- **Outcome**: ongoing.

Leadership Experience

Feb. 2020 – Present **Wapic Insurance IT Division**, Software Development Lead .
- Lead the software team in the development of all platform and applications.
- Liaised with the business owners on software to be built, their features and their respective timelines.

Jan. 2019 – Present **AI Saturdays Lagos**, Co-organiser .
- Liaise with the lead instructors of the different learning track, on what curriculum to be taught.
- Ensure the availability of resources required for learning such as venue and internet.
- Ensure that the students are learning and projects are completed students.

Nov. 2015 – Dec. 2016 **ASHRAE, University of Lagos**, President .
American Society for Heating Refrigeration and Air-Conditioning Engineers
- Managed the students branch activities and reported duly to the National branch and Region-at-large.
- Conducted technical sessions for our members, organised events that invited experienced HVAC Engineers to our meetings.
- Successfully increased the membership of the branch by about 30% and won a $3000 ASHRAE scholarship for a student member.

Projects/Achievements

- **Machine Learning (Artificial Intelligence)**.

  - Collated dataset of Nigerian currencies and implemented a Convolutional Neural Network model to classify Nigerian Currency using Fastai and obtained an average accuracy of 96%.
  - Implemented a Multi-Agent Reinforcement Learning model to play the game of tennis on Unity ML-Agents Tennis Environment, with an average score of 30 after 97 episodes.
  - Implemented a Convolutional Neural Network model to detect face emotion and obtained an average accuracy of 70%.
  - Achieved an outstanding Kaggle leader-board score in the Women in Data Science competition after implementing a Convolutional Neural network to predicts the presence of oil palm plantations in satellite imagery.
  - Implemented a reinforcement learning agent in the Unity ML-Agents Reacher Environment. The double-jointed arm agent learnt to maintain position at the target location in an observation space with 33 variables corresponding to position, rotation, velocity and angular velocity.
- **Software Development**.

  - Built a QR code attendance tracker app using google sheets as database. For low budget meetups, it keeps record of attendance with little effort. (soon to be open sourced)
  - Lead the development of all digital platforms in Wapic Insurance Plc., which includes the retail portal *(for retail purchases)*, corporate portal *(for corporate purchases)*, company website, and WapX Connect *(for internal fulfilment processes)*;
- **Engineering**.

  - Together with a team of students, we designed and constructed an electric car using locally sourced materials.
  - Implemented a mathematical model that describes the thermal performance of different shape of micro-fins.

Volunteer Experience / Membership

Organising Committee.
- Lagos NeurIPS meetup 2019
- AI Saturday Lagos (Over 200 attendees)

Mentorship.
- National Youth Service Corp (2018)

Teaching.
- Machine Learning (AI Saturdays Lagos)
- Data Science (AI Saturdays Lagos)

Black in AI.

Invited Talks and Tutorials

October 2019 **Invited Talk at Tensorflow Roadshow**.