JOSHUA OWOYEMI

+81-90-8929-8658, TOKYO, JAPAN.
tjosh.owoyemi@gmail.com | www.linkedin.com/in/joshua-owoyemi | www.github.com/toluwajosh

SKILLS

- Programming Languages: Python, C++, Matlab.
- Applications: Machine Learning and Deep Learning using Pytorch, Tensorflow, Keras, Scikitlearn.
- Japanese Language: Conversational
- Others: Git, Latex, OpenCV, PCL, ROS, AWS.

WORK EXPERIENCE

ZMP Inc – *Machine learning and Software Engineer* | *Tokyo, Japan* | *Apr 2018 - Present*

- Develop deep learning-based software solution for Autonomous Car's perception, scene understanding, and behaviour control.

MicroVision Inc – *Deep Learning Consultant* | *Redmond, USA* | *May 2018 – Mar 2019*

- Develop deep learning algorithms for mid-air hand gesture recognition for a consumer tabletop LIDAR sensor using point cloud data.
- Develop deep learning algorithms for vision based interactive touch feedback for a consumer tabletop LIDAR sensor.

African Association of Miyagi - *Volunteer Information Officer* | *Sendai, Japan* | *Dec 2016 – Mar 2018*

- Develop and maintain the organisation's public channels, such as the website and social media pages for up to date and relevant information.
- Helped to organise seminar and cultural performance event, raising up to 1 million Yen of funds from companies and organisations within the region.

PROJECT/RESEARCH EXPERIENCE

Robot Control and Manipulation - *Simulation Video* | *Feb 2019*

- Developed a point cloud gesture-based robot operation and a manipulation strategy for a robot arm to pour liquids without spilling. Simulation in with ROS and Gazebo to validate pouring strategy.

Spatiotemporal Learning of Dynamic Gestures from 3D Point Cloud Data - *ICRA Paper* | *Apr 2018*

- Developed an end-to-end spatiotemporal gesture learning approach for 3D point cloud data using a new gestures dataset of point clouds acquired from a 3D sensor.
- The developed model is able to classify gestures from a new dataset of Common Japanese Gestures with 84.44% accuracy.

Human Motion Prediction with Convolutional Neural Network - *ICMA Paper* | *May, 2017*

- Built and trained a 3D convolutional neural network model to predict human arm reaching motions from observations of a point cloud data from a Kinect sensor.
- The developed model was able to predict human motion with over 90% accuracy and generalise to new people.

EDUCATION

PhD. in System Information Science - Tohoku University. *Japan.* | *Mar 2019*
SELF-DRIVING CAR NANODEGREE - Udacity. *USA* | *Oct 2017*
M. ENG. in Mechanical Engineering - Federal University of Agriculture. *Nigeria* | *May 2013*
B. ENG. in Mechanical Engineering - Federal University of Technology. *Nigeria* | *Dec 2009*

HONOURS AND ACTIVITIES

MEXT Scholarship. | *Apr 2015 - Mar 2019*