Lwam Zemikael Araya

Date of birth: 31/01/2001 | **Nationality:** Ethiopian | **Phone number:** (+82) 1026641131 (Mobile) | **Email address:** lwamzeche@kaist.ac.kr |

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WORK EXPERIENCE

15/06/2023 – CURRENT Seoul, South Korea

SOFTWARE ENGINEER SENTIENCE INC.

- Full stack website development (front end and backend)
- Android Game developer

01/09/2022 – 25/12/2022 Daejeon, South Korea

UNIVERSITY TEACHING ASSISTANT (INTRODUCTION TO ALGORITHM) KAIST SCHOOL OF COMPUTING

- preparing and grading assignment questions
- preparing and grading sample exam question
- answering students question in TA Offce hours

01/01/2022 – 15/06/2023 Daejeon, South Korea

RESEARCH ASSISTANT KAIST NETWORK AND COMPUTING LAB

- Worked on a project called Egg classification and object detection using ResNet, and Transformer variants
- Worked on Musical Application of AI

EDUCATION AND TRAINING

01/09/2020 – CURRENT Daejeon, South Korea

UNIVERSITY UNDERGRADUATE STUDENT KAIST

Website https://www.kaist.ac.kr/en/

DIGITAL SKILLS

Programming Languages (python, Java, C, C#) | Machine Learning (CNN, RNN, LSTM, GAN, Transformer) | Frontend (Vuejs, React, Bootstrap5) | Backend (Flask, Mongodb, MySql, Firebase) | Mobile App (Flutter, React Native) | Soft Skills (communication, problem solving, adaptability, team work)

LANGUAGE SKILLS

Mother tongue(s): **TIGRIGNA**

Other language(s):

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken production	Spoken interaction	
AMHARIC	C2	C2	C2	C2	C2
ENGLISH	C2	C2	C2	C2	C2
KOREAN	B1	B1	A2	A2	A2

Levels: A1 and A2: Basic user; B1 and B2: Independent user; C1 and C2: Proficient user

ADDITIONAL INFORMATION

PROJECTS

Egg classification and object detection - During my time as a research assistant at NCLLab in KAIST, I contributed to a deep learning project in collaboration with HanbatIoT. Our project focused on egg classification and object detection, and we used various deep learning techniques such as ResNet, LeNet, Residual Attention Network, and Transformer variants to build our model. My responsibilities included model development, testing, and optimization. Our team successfully completed the project by the end of February 2023, meeting all project requirements and expectations. Math Park - Developed and implement

Musical Application of AI Implemented AlexNet model on MNIST dataset using PyTorch and trained it using stochastic gradient descent optimizer with cross-entropy loss function to achieve high accuracy, and applied audio transformations such as STFT, Mel Spectrogram, and MFCC using torchaudio.transforms module

Link https://github.com/lwamzeche/Musical_Applications_of_ML-

Math Park - Developed and implemented Math Park, a web application that utilized a machine learning model trained on TensorFlow.js to accurately classify handwritten digits.

Links https://github.com/lwamzeche/MathPark | https://lwamzeche.github.io/MathPark/

TicketEase NFT - Me and my teammates developed a web3 app using for our Blockchain class in KAIST,

Links https://github.com/lwamzeche/TicketEase_NFT | https://ticket-ease.vercel.app/

Steam-dex - During my summer internship at Sentience, I developed a website for steam game statistics using Vuejs, Flask, and MongoDB

Link https://steam-dex.com/

Roommate Matching Mobile app For our class, social computing, me and my teammates developed a roommate matching android app using flutter and firebase

Link https://github.com/lwamzeche/Roommate_Matching

VOLUNTEERING

Silver Lining As an active member of the KAIST volunteer club, Silver Lining, I dedicated my time to teaching English and Science to elementary school students in Daejeon for free

Link https://www.instagram.com/silverlining.kaist/