Mohammad Zeineldeen

□ +49 16 31638286 • ☑ mohammadzed5@gmail.com • ☑ mmz33.github.io Date of Birth: 18 Nov. 1995

Education

RWTH Aachen University *Ph.D. in Computer Science*

Aachen, Germany

Winter 2020 - Current

RWTH Aachen University

Aachen, Germany

Masters in Software Systems Engineering

Winter 2017 - Winter 2019

 $\label{thm:master} \textit{Master thesis: Layer Normalization Variants and Multiplicative LSTMs}$

Bachelor of Science in Computer Science awarded with Distinction

Grade: 1.4/1.0 (very good)

American University of Beirut

Beirut, Lebanon

Fall 2014 - Spring 2017

Grade: 3.7/4.0

Research Interests

recurrent networks, LSTMs, end-to-end models, neural attention models, automatic speech recognition (ASR), natural language processing (NLP)

Publications

o M. Zeineldeen, A. Zeyer, R. Schlüter, and H. Ney. Layer-normalized LSTM for Hybrid-HMM and End-to-End ASR. In IEEE International Conference on Acoustics, Speech, and Signal Processing (ICASSP), Barcelona, Spain, May 2020. To appear.

Experience

Speech Scientist - AppTek GmbH · Part-time

Aachen, Germany

o Building robust ASR systems for different languages

Jan. 2020 - Current

Student Research Assistant - ASR team at RWTH Aachen

Aachen, Germany

o Implemented various layer normalized LSTM variants using TensorFlow

July 2018 - Dec. 2019

- o Investigated Multiplicative LSTMs
- o Built both hybrid and encoder-decoder attention frameworks for ASR acoustic modeling
- o Built neural language models with word/BPE output labels

Software Developer at InteractiveLife

Beirut. Lebanon

June 2018 - Sept. 2018

- o Development and maintinance of an Android SDK
- o Refactored the code base network framework to use Google's Volley library
- o Automated the process of creating apps (connected to web API to specify the content like design, colors, etc) and uploading apks to the store

Participated as a main instructor in preparing the slides for a beginner Android course

Future Developer Summer Camp - AUB

Beirut, Lebanon

July 2018

and teaching it for school students

Projects

Imgs Beirut, Lebanon

Imgs is an android mobile image search app that uses Deep Learning to allow users to search for images related to a specified english query in their gallery

Feb. 2017 - May 2017

Deep Learning Related Code

Source Code: https://mmz33.github.io/code/

CustomVolleyRequester

Beirut, Lebanon

2017

A library, based on Google's Volley library, that makes android HTTP requests easier and requires no boiler plate code that volley usually needs

Source Code: https://github.com/mmz33/CustomVolleyRequester

HopIn

Beirut, Lebanon

Beirut, Lebanon Fall 2013 - Spring 2017

Beirut, Lebanon

Beirut, Lebanon Fall 2014 - Spring 2017

Beirut, Lebanon March 2017 - May 2017

Developed an Android carpooling application on a team for a Software Engineering course

Source Code: https://github.com/mmz33/HopIn

Feb. 2016 - May 2016

Scholarships and Certificates

USAID Scholarship

Awarded full scholarship to study BSc. in Computer Science at

the American University of Beirut

ACM - Lebanese Collegiate Programming Contest (LCPC)

Won the 1st place (Team: 1729)

American University of Beirut

Placed three times on the Dean's Honor List

Darwazah Student Innovation Contest

Won 1st runner up award in 2017 Darwazah Student Innovation Contest. The idea was to compute the number of calories of food given as input an

image using Deep Learning.

Computer Skills

Basic Knowledge: CUDA, C, Postgresql, Html, Bootstrap

Intermediate Knowledge: C++11, Java, Python, TensorFlow, Android Development, LATEX, Git, SQL, Vim, Bash

Volunteering

AUB - Center of Civic Engagement and Community Service (CCECS)

o Implemented a community based project under the theme of using "Art therapy" to tackle the increase of negative coping mechanisms among children in poor neighbourhoods in Beirut and its surroundings

- o Volunteered in teaching Palestinian students math skills for the SAT exams at AUB
- o Participated in sorting clothes to be delivered to Syrian refugees
- o Worked with D-RASSATI program in collecting data from Lebanese official schools in order to integrate technology in the educational field
- o Volunteered with Nasma organization in helping students that have disabilities with their school studies

Languages

English: Fluent

German: Fair (Level A)

Arabic: Native

Beirut, Lebanon

Fall 2013 - Spring 2017