

Mohammad Zeineldeen

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Date of Birth: 18 Nov. 1995

Education

RWTH Aachen University

Ph.D. in Computer Science

Aachen, Germany

Winter 2020 - Current

RWTH Aachen University

Masters of Science in Software Systems Engineering

Master thesis: Layer Normalization Variants and Multiplicative LSTMs

Aachen, Germany

Winter 2017 - Winter 2019

American University of Beirut

Bachelor of Science in Computer Science

Beirut, Lebanon

Fall 2014 - Spring 2017

Research Interests

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

Publications

- 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

- Building robust ASR systems for different languages

Aachen, Germany

Jan. 2020 - Current

Student Research Assistant - ASR team at RWTH Aachen

- Implemented various layer normalized LSTM variants
- Investigated Multiplicative LSTMs
- Built both hybrid and encoder-decoder attention frameworks for ASR acoustic modeling
- Built neural language models for word and BPE output labels

Aachen, Germany

July 2018 - Dec. 2019

Software Developer at InteractiveLife

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

Beirut, Lebanon

June 2018 - Sept. 2018

Future Developer Summer Camp - AUB

Participated as a main instructor in preparing the slides for a beginner Android course and teaching it for school students

Beirut, Lebanon

July 2018

Projects

Imgs

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

Beirut, Lebanon

Feb. 2017 - May 2017

Deep Learning Related Code

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

CustomVolleyRequester

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

Beirut, Lebanon

2017

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

HopIn

Developed an Android carpooling application on a team for a Software Engineering course
Source Code: <https://github.com/mmz33/HopIn>

Beirut, Lebanon

Feb. 2016 - May 2016

Scholarships and Certificates

USAID Scholarship

Awarded full scholarship to study BSc. in Computer Science at the American University of Beirut

Beirut, Lebanon

Fall 2013 - Spring 2017

ACM - Lebanese Collegiate Programming Contest (LCPC)

Won the 1st place (Team: 1729)

Beirut, Lebanon

2016

American University of Beirut

Placed three times on the Dean's Honor List

Beirut, Lebanon

Fall 2014 - Spring 2017

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.

Beirut, Lebanon

March 2017 - May 2017

Computer Skills

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

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

Languages

English: Fluent

German: Fair (Level A)

Arabic: Native