Badr **ALKHAMISSI**

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EDUCATION

Goldsmiths, University of London, MASTER OF SCIENCE

₩ Sep 2019 - Sep 2020

♀ London, UK

> MSc in Computational Cognitive Neuroscience.

The American University in Cairo, BACHELOR OF SCIENCE

Sep 2014 - Jun 2018

• Cairo, Egypt

- > BSc. in Computer Science Summa Cum Laude. GPA 4.0
- > President's Cup and Mohamed El Beleidy Academic Award for Class Valedictorian.
- > Mohammed Bin Abdulkarim A. Allehedan Award for highest performing STEM student.
- > Academic Achievement Scholarship.

Tsinghua University, DEEP LEARNING SUMMER SCHOOL

July 2017

♀ Beijing, China

> Outstanding Performance Award in Summer School.

Stony Brook University, SEMESTER ABROAD

Aug 2016 - Dec 2016

♥ New York, US

- > Best Junior Award in ACM Regional Qualification Contest.
- > Abdallah Jum'ah Study Abroad Scholarship.

Manor House School, International General Certifi-CATE OF SECONDARY EDUCATION

Sep 2011 - Jun 2014

• Cairo, Egypt

> Outstanding Cambridge Learner Award in AL Computing.

EXPERIENCE

Microsoft, Software Engineer, Applied Scientist

Jun 18 - Sep 18, Apr 19 - Sep 19

Cairo Egypt

- > Best Mentor Award
- > Research in Cross-Lingual Model Transfer

Vkansee, Machine Intelligence Researcher

🛗 Jan 18 - Mar 19

Cairo Egypt

> Conduct research to improve SOTA algorithms in fingerprint matching, spoofing and quality analysis

The American University in Cairo, TEACHING ASSISTANT

Fall 15, 17, Spring 16

Cairo Egypt

> Undergraduate teaching assistant for Deep Learning and Programming Fundamentals courses.

Microsoft, Software Engineer Intern

III Jun 15 - Aug 15, Jan 16

Cairo Egypt

> Part of the MS Language Understanding Intelligent Service (LUIS) development team.

PUBLICATIONS & CONFERENCES

- > Deep Diacritization (First author). Accepted in The Fifth Arabic Natural Language Processing Workshop. COLING/WANLP-2020. Proposes a novel architecture for automatically restoring Arabic diacritics that outperforms previous SOTA methods.
- > Meta-RL on the Episodic Harlow Task (First author). Under review in the NeurIPS/MetaLearn 2020 workshop. Introduces an episodic variant of the Harlow visual fixation task and uses it as a testbed to analyze the performance and reinstatement gate activations of an episodic meta-RL agent.
- > Junior Reviewer in the NeurIPS/MetaLearn 2020 workshop

PROJECTS

EPISODIC META-RL ON THE TWO-STEP AND HARLOW TASKS JUN 20 - SEP 20

github.com/bkhmsi/Meta-RL-TwoStep-Task

MSc Dissertation. Reproduces the results of animal behavior and artificial agents on both the Two-Step and Harlow tasks using an episodic meta-RL computational model that combines three fully-fledged RL systems inspired from the machine learning and neuroscience literature.

Python PyTorch Meta-RL RL EMRL Neuroscience

VIDEO SEGMENT RETRIEVAL BY TEXT QUERIES SEP 17 - MAY 18

github.com/bkhmsi/forget-me-not

Undergraduate Thesis Project. Proposes a framework for searching long untrimmed videos for segments that logically correlate with a natural language query.

Python PyTorch Tensorflow Keras Computer Vision NLP

SKETCH INVERSION USING DEEP CONVOLUTIONAL NEURAL **NETWORKS**

github.com/bkhmsi/sketchback

Synthesising photo-realistic images from pencil sketches of human faces and architectural drawings of buildings through the use of deep convolutional neural networks.

Python Tensorflow Keras Computer Vision

KORASTAK.COM

Jun 16 - Present

☑ Korastak.com

Note-sharing platform with the goal of democratizing the studying experience for students in Egyptian universities.

NodeJS AngularJS JS TS Firebase NoSQL

SKILLS

Proficient

Python, PyTorch, TF, Keras, C++, JS, NodeJS, C#, Java, SQL, Matlab, HTML

Prior Experience

Swift, Obj-C, F#, Elm, VB, PHP, Verilog, Ruby, iOS Dev, Android Dev, Windows Phone Dev, Alexa Dev, Unity, Arduino

LANGUAGES





> 1st in MS ATLC Hackathon

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- > CS Exemplary Student
- > 2nd in Alexa Hackathon