OMAR ABID

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SUMMARY

I obtained my BSc degree in Biophysics and then went on to pursue a MSc in Computer Science specializing in Computer Vision. Through my training I've acquired knowledge and experience in the domains of machine learning with a focus on computer vision from both a computational and neuroscience perspective. I am a highly motivated individual looking to build my career while continuing to learn and deliver projects with value. Currently seeking a role in these areas with a company having a clear vision moving forward.

SKILLS

Programming
- *Strong:* C++, Java, Python, Android, OpenCV, OpenCL, Machine Learning (SSD, CNN, SVM), Tensorflow
- *Knowledgable:* Node.js, SQL, PHP

Theoretical
- Quantum Physics, Electronics, Computational Neuroscience

Interpersonal
- Team Leadership & Inclusivity,
- Work Ethic, Communication

EDUCATION

2018
Master of Science: Computer Science
York University — Toronto, ON, Canada
Area of Focus: Active and Attentive Vision in Computational Neuroscience

2014
Bachelor of Science: H. Biophysics
York University — Toronto, ON, Canada

2009
High School Diploma
Emily Carr Secondary School — Vaughan, ON, Canada

EXPERIENCE

04/2018
Data Scientist
Watopedia — Dubai, U.A.E.
Develop a set of algorithms as separate modules that compose a deliverable for a security application. Includes but not limited to training Deep Neural Networks for object detection and classification. The system is deployed on proprietary hardware in remote areas and captures input from a variety of input sources – Video stream and LIDAR.

05/2015 to 08/2015
Research Assistant
York University — Toronto, ON
J. Tsotsos Vision Lab: Addition of new features to TarzaNN - a neural network simulator. Implemented in C++.

10/2013 to 04/2014
Research Assistant
York University — Toronto, ON
R. Lew's Electrophysiology Lab: Design and development of an electronic circuit for current-voltage measurements of *Neurospora crassa* hyphae.

04/2013 to 08/2014
Research Assistant
York University — Toronto, ON
T. Womelsdorf's Attention Learning Lab: Statistical EEG Data analysis of Macaque Monkeys for neural population decoding. Analyzed with Matlab's Statistics and Machine Learning Toolbox.

ACTIVITIES

Activities
- *High Performance Computing Summer School - Waterloo, ON 2014*: OpenMPI and CUDA based course.
- *NextAI 2017:* Finalist for entrepreneurs creating AI powered business.

Awards
- *Dean's Honor Roll 2011:* Academic Excellence in Biophysics
- Math Provincial Award

Volunteer
- *EpilepseyToronto.org 2013: Fundraising and educating.*

PUBLICATIONS

Sengupta, R., Abid, O., Bachoo, A., & Tsotsos, J. (2017). Attentional blink as a product of attentional control signals: A computational investigation. Journal of Vision, 17(10), 1197-1197.

PREVIOUS EXPERIENCE

01/2016 to 04/2017 **Teaching Assistant**
York University — Toronto, ON
Invigilate and grade exams and labs for first to third year undergraduate computer science students. Worked with robotics, mobile app development and software design.

10/2013 to 07/2014 **Research Assistant**
York University — Toronto, ON
T. Womeldorf's Attention Learning Lab: Collect and analyze data from human participants to assess the impact of different strategies for learning the relationship between stimulus and reward. Leveraged Matlab's Statistics and Machine Learning Toolbox.

09/2013 to 09/2015 **Tutor**
Tutor Doctor — Toronto, ON
Tutor high school and university students for a variety of subjects: Physics, Chemistry, Math, Computer Science

11/2012 to 04/2012 **Software Developer Associate**
York University — Toronto, ON
Design and implement software interface and communication systems for York University's Rover Team. Used C++ and Python.

09/2011 to 04/2013 **PASS Leader**
York University — Toronto, ON
Group study session organizer and facilitator: Prepare and facilitate study sessions for undergraduate students taking first and second year science courses: Chemistry, Math, Physics. Take part in hiring new employees.

05/2011 to 09/2011 **West Nile Virus Control Technician**
City of Toronto — Toronto, ON

09/2007 to 09/2008 **Food Service Worker**
McDonald's — Toronto, ON
Take customer orders, prepare food and manage stock inventory.