ARISTIDES MILIOS

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aristides.milios@gmail.com | atmilios.com | Greek and Canadian citizen

SKILLS & ABILITIES

- deep learning and neural networks, specifically CNNs, RNNs, Attention-based networks, and Adversarial Training
- entrepreneurship and innovation (through startup, Shad Valley, Stanford's University Innovation Fellows Program, and presidential role in Dalhousie Entrepreneurship Society)
- full-stack web design and web system architecture (Python, PHP, WordPress, PostgreSQL, HTML/CSS/JS)

EXPERIENCE

Teaching Assistant, Dalhousie University   September 2020 – December 2020

Halifax, Nova Scotia

- Worked as Teaching Assistant in the Fall 2020 academic term
- Performed TA duties for 3 courses in the Computer Science Department:
  - o CSCI 3141 Foundations of Data Science using R, with Dr. Luis Torgo
  - o CSCI 2170 Server-side Scripting, with Dr. Bonnie MacKay
  - o CSCI 2141 Intro to Database Systems, with Dr. Khurram Aziz

Research Intern, Know-Center GmbH   September 2019 – January 2020

Graz, Austria

- Third internship of degree at Dalhousie
- Researched Active Learning techniques with regards to Recommender Systems, as well as Attention-based RNN models
- Advanced existing research project known as "Risk-ID", by writing a ML backend based on Keras and Tensorflow, as well as implementing an Attention-based visualization and an Active Learning-based mode of function
- Helped design a user study to evaluate the effectiveness of the changes to the tool

Research Intern, MarineTraffic Inc.   May – September 2018, January – May 2019

Athens, Greece

- In the context of a research collaboration between the Institute for Big Data Analytics at Dalhousie University and MarineTraffic Inc, did research involving fusion of AIS data streams and radar and optical-based satellite imagery for better maritime awareness
- First and second internship as part of degree at Dalhousie, second internship co-funded by a MITACS Globalink Grant
- Resulted in presentation at CTFG workshop in Ottawa, a full paper at FUSION 2019 Conference, and a full paper at the Maritime Situational Awareness Workshop in La Spezia, Italy. See Academic Publications for further details.

Freelance Web Developer   September 2016 – Present
– Working primarily on WordPress sites
– Further experience with Flask, Django, Laravel, React.js, and Vue.js

Co-founder and CTO, MicroCent Technologies Inc.   January 2014 – September 2018
Halifax, Canada

– Founded a startup in high school with a classmate, using Wi-Fi beacons to track customers in brick-and-mortar stores via their phones and provide Google Analytics-like statistics to store owners
– Passed through two accelerators, Launch36 (Sep-Nov 2014) and Propel ICT accelerator (June-Sep 2015)
– Many responsibilities as CTO, including management of technical staff and overall product direction, as well as hands-on development of the web platform

EDUCATION

Dalhousie University, Bachelor of Computer Science   September 2016 – August 2020
Halifax, Canada

– Accepted with a full scholarship, at a value of $41,900 CAD
– Graduated with First Class Honours and GPA of 4.13/4.3, in top 10% of class
– Wrote Honours Thesis on NLP topic (novel compact pre-trained BERT embedding)
– Achieved Sexton Scholar designation (GPA above 3.85) in all years of study
– Was awarded the Bruce and Dorothy Rossetti Scholarship Silver Award for a Second-Year student, for having the second-best GPA of my year, at a value of $1,750 CAD
– Did 3 internships as part of Cooperative Education Program (two at MarineTraffic in Athens, Greece; one at Know-Center in Graz, Austria)
– Awarded Entrepreneurial Skills Certificate by the Norman Newman Centre for Entrepreneurship (Faculty of Management), through the Entrepreneurial Skills Program

LEADERSHIP

Co-President, Dalhousie Entrepreneurship Society   January 2018 – August 2020
Halifax, Canada

– Co-president of DES, taken on from previous Dalhousie University Innovation Fellows. Ran series of workshops to introduce students to fundamental entrepreneurship and design thinking concepts

University Innovation Fellow, Dalhousie   October 2017
Halifax, Canada and Sunnyvale, California

– Passed through rigorous 2-month online training, then 4-day conference in Silicon Valley (Stanford Campus and Google headquarters) to meet all other Fellows from all over the world, funded by the Norman Newman Centre for Entrepreneurship at Dalhousie University

SHAD Fellow July 2014

Hamilton, Canada

– Took part in 1-month intensive program at McMaster University in Hamilton, covering entrepreneurship, innovation, and STEM topics in general

VOLUNTEERING

Co-founder and Program Coordinator, Hoist Halifax January 2015 – December 2017

Halifax, Canada

– Co-founded Hoist Halifax; program to get teens interested in tech and entrepreneurship in collaboration with Volta Labs Halifax
– Consists of monthly workshops with exciting tech/innovation topics (some examples are virtual reality, game dev, business plan dev, lightning pitches, 3D modelling)
– Frequent guest speakers from the local startup community (Volta Labs)

Guest Speaker, Refresh Annapolis Valley May 2017

Truro, Canada

– Spoke about entrepreneurial experiences as a high-school student (Bitness.io and MicroCent Inc.)

Youth Entrepreneurship Speaker, YES Atlantic Conference March 2015

Moncton, Canada

– Participated in Q&A regarding getting youth involved in entrepreneurial activities, offering the perspective of someone who did so in high school

LANGUAGES AND CERTIFICATIONS

– Native English and Greek (C2 level) and French B2 level (according to Common European Framework of Reference for Languages)

ACADEMIC PUBLICATIONS

– K. Bereta, A. Milios, K. Chatzikokolakis, and D. Zissis, "Monitoring Marine Protected Areas using Data Fusion and AI Techniques," NATO CMRE Maritime Situational Awareness Workshop, La Spezia, Italy, 2019. Link: https://www.cmre.nato.int/msaw-2019-home/msaw2019-papers/ [Peer-Reviewed]
– A. Milios, K. Bereta, K. Chatzikokolakis, D. Zissis and S. Matwin, "Automatic Fusion of Satellite Imagery and AIS data for Vessel Detection," 2019 22th International Conference on Information Fusion (FUSION), Ottawa, ON, Canada, 2-5 July 2019. Link: https://ieeexplore.ieee.org/abstract/document/9011339 [Peer-Reviewed]
– A. Milios, D. Zissis, K. Chatzikokolakis, and S. Matwin, "Sail ho! A deep learning approach for ship detection which utilises complimentary sensing capabilities, " 2018 Canadian Tracking and Fusion group (CTFG) Workshop, Ottawa, ON, Canada, 15-16 October 2018.