Thalles Santos Silva

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Work Experience

Employer	**Daitan Group**	Campinas, Brazil - **February 2018 — To the present**
Position	**AI Software Architect at Innovation at Daitan Group**	

- Currently developing Recurrent Neural Networks for conversational agents.

Employer	**Eldorado Institute of Technology**	Campinas, Brazil - **May 2015 — 2018**
Position	**Software Engineer**	

- Awarded top 5% developer for projects achievements and commitment, 2016 and 2017.
- Top developer of the Machine Learning research group. Contributed to the Company's expansion in this field allowing for new projects contracts.

Employer	**Great Lakes Forestry Centre**	Sault Ste Marie, Canada - **May 2014 — November 2014**
Position	**Researcher Junior**	

- Led implementation of the R package for creating and analyzing air trajectory data which was the main computational tool for a research project on predicting insects' movements.
- Library that encapsulates the core functionalities of the *Hybrid Single Particle Lagrangian Integrated Trajectory Model* (HYSPLIT) software in order to have total access of its results from within the R environment.

Education

Degree	**Masters in Computer Science**	**Present**
University	**The State University of Campinas**	Campinas, Brazil

Degree	**Bachelor in Computer Science**	**July 2009 — December 2014**
Universities	**The State University of Santa Cruz**	Ilhéus, Brazil
	Algoma University *Awarded scholarship*	Sault Ste Marie, Canada

- **Application for compressing and encrypting text files** using Huffman's algorithm which can reduce file's size up to 60%.*Awarded First Prize in Computer Science Programming Class Contest, (2010).*

Honours

- **1st** place Microsoft & Atento Hackathon. Innovative Computer Vision based solution for an Automobile company. *2017*
- CAD 110.00,00 **Science Without Borders** scholarship for exceptional undergraduate students. *(2013-2014)*
- R$ 4.800,00 **Scientific Initiation Fellow** program that supports research at University. *(2011-2013)*

Complementary Education

Nanodegrees	**Udacity Deep Learning**, **Udacity Machine Learning**	**2016 - 2017**

- Developed and/or designed several projects on schedule by collecting and examining various datasets to build models that include: Support Vector Machines(SVMs), Supervised/Unsupervised/and Deep Reinforcements learning.

English	**English as a Second Language (ESL)** - Canada, **Achieve Languages** - Brazil
Online Courses	**6 Computer Science courses**; Intro to Parallel Programming; Deep Learning; Artificial Intelligence; C++ for C Programmers; Intro to Machine Learning. (Certificates available upon request)

Skills

Languages	**C; C++; C#; R; PHP; Python; CUDA; OpenMP; MPI**
Frameworks	**TensorFlow, Sklearn**
Technologies	**Jupyter Notebooks; Git; Github; Visual Studio**

Languages

- English and Portuguese

Projects

- **Deep Convolutional Semantic Segmentation Networks** (Sep 2017): Tensorflow implementation of Google's Deeplab-V3 network. Emphasizes the best practices of data pre-processing, augmentation, and training techniques. **Blog Post.**
- **RNN Language Translator** (Mar 2017): Architected a Sequence to Sequence Recurrent Network to translate English sentences to French. Emphasizes the use the Tensorflow seq2seq API and data processing for text models.
- **Asynchronous Actor Critic - A3C** (Jan 2017): Implemented the Google's DeepMind (A3C) algorithm using Tensorflow and Openai Gym achieving excellent results on various Atari games.
- **Street View Sequence Recognition** (Sep 2016): Convolutional Network for digit sequence recognition. Deployed several techniques for analyzing and synthetically increasing dataset's varieties to achieve over 95% accuracy.

*For a more in-depth view of this CV, please refer to my **Linkedin**, **Github** and my personal **Deep learning blog**.*