Thalles Santos Silva

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Work Experience

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

- Received top level performance ratings and customers feedback every year.
- Awarded top 5% developer for projects achievements and commitment, 2016.
- Top developer in the Company's internal Machine Learning research group leading the advances of the Company in this field which allowed 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 insects' transportation.
- 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.

Employer	**RCS Informática**	Itabuna, Brazil - **March 2012 — June 2013**
Position	**Software Developer (Part Time)**	

- Redesigned the Enterprise's website leading to 60% reduction in customer supporting calls.

Education

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

- Three years of sponsored **research** on High Performance Computing (HPC).
- **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).*

Complementary Education

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

- Developed and/or designed more than 10 projects on schedule by collecting and examining various datasets to build models that include: Support Vector Machines(SVMs), Supervised/Unsupervised/Reinforcements learning.

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

Skills

Languages	**C; C++; C#; R; PHP; Python; SQL; CUDA; OpenMP; MPI; JavaScript**
Frameworks	**AngularJS, KnockoutJS, TensorFlow, Sklearn**
Databases	**MySQL, PostgreSQL, MongoDB**
Technologies	**Jupyter Notebooks; Git; Github; Visual Studio**

Languages

- English and Portuguese

Projects

- **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 seq2seq 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.
- **Creating Customer Segments - Unsupervised Learning** (June 2016): Reviewed unstructured data to understand the patterns and categories the data fits into. Used algorithms to compare and contrast the results.