

WORK EXPERIENCE

EMPLOYER	Eldorado Institute of Technology	Campinas, Brazil - May 2015 — Currently
POSITION	Software Engineer	
<ul style="list-style-type: none"> Maintained a constant interaction with project's customers which led to high feed backs on customers satisfaction. Contributor to the internal Machine Learning research group that allowed the company to get new customers. 		
EMPLOYER	Great Lakes Forestry Centre	Sault Ste Marie, Canada - May 2014 — November 2014
POSITION	Researcher Junior	
<ul style="list-style-type: none"> Led implementation of the R opentraj 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 <i>Hybrid Single Particle Lagrangian Integrated Trajectory Model</i> (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)	
<ul style="list-style-type: none"> Contributed to developing Protocol and Daily Management systems which led to an increase in company's revenue. Redesigned the Enterprise's website leading to a significant reduction in customer supporting calls. 		

FORMAL EDUCATION/ACADEMIC DEGREES

DEGREE	Bachelor in Computer Science	July 2009 — December 2014
UNIVERSITIES	The State University of Santa Cruz Algoma University	Ilhéus, Brazil Sault Ste Marie, Canada
EXCHANGE	Science Without Borders - 1.5 year scholarship from the Brazilian Government.	
<ul style="list-style-type: none">• Three years as Student Researcher sponsored by Research Support Foundation of the State of Bahia – FAPESB.• Theses in Computer Science: Parallel Processing Using Hybrid Techniques for Applications in Transport of Particles based on Monte Carlo method. Technologies: NVIDIA CUDA, OpenMP e MPI.• EasyKanban (2012). Web-based application for project management. <i>Awarded First Prize in Computer Science Software Engineering Class Contest.</i>• Application for compressing and encrypting text files using Huffman algorithm which can reduce file's size up to 60%. <i>Awarded First Prize in Computer Science Programming Class Contest, (2010).</i>		

COMPLEMENTARY EDUCATION

NANODEGREES	Udacity Deep Learning	January 2017 - Current
	Udacity Machine Learning	April 2016 - September 2016
COURSES	English as a Second Language (ESL)	Algoma University - 2013 - 2014
	Achieve Languages - English Course	2010 - 2013
ONLINE	6 Computer Science courses; Intro to Parallel Programming; Deep Learning; Artificial Intelli-	
COURSES	gence; C++ for C Programmers; Intro to Machine Learning. (Certificates available upon request).	

RESEARCH PROJECTS / PRESENTATIONS IN EVENTS

UNIVERSITY	The State University of Santa Cruz	Ilhéus, Brazil
ADVISOR	Esbel Tomás Valero Orellana	CV: http://lattes.cnpq.br/8384020879567133
FUNDING INSTITUTION	Research Support Foundation of the State of Bahia – FAPESB	

- Parallel processing on high performance stations applied to particle transport simulation using the Monte Carlo method (*2012 - 2013*).
- Parallel processing using Graphics processing units (GPUs) applied to particle transport simulation with the Monte Carlo method (*2011 - 2012*).
- Parallel implementations for Random Walk Algorithms - **Volunteer** (*2010 - 2011*).
- Parallel implementations of the Random Walk Algorithm (**Presentations**)
 - *The State University of Santa Cruz - UESC - XVIII Scientific Seminar (2012).*
 - *The State University of Santa Cruz - UESC - Computer Week (2011).*

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; Visual Studio
OPERATING SYSTEMS	Linux; MAC OS; Windows;

LANGUAGES

- English and Portuguese

PROJECTS

For more projects, please refer to my linkedn or github accounts.

<https://www.linkedin.com/in/thalles-silva-32ab08a3/>

<https://github.com/thalles753/>

NAME	RNN Language Translation	Mar 2017
GITHUB	Github code link	

- Sequence to Sequence Recurrent Network model to translate English sentences to French. The model emphasizes the use the seq2seq Tensorflow's API, as well as the common data processing steps to successfully train a seq2seq model for language translation.

NAME	Asynchronous Actor Critic (A3C) Tensorflow implementation	Jan 2017
GITHUB	Github code link	

- My version of the Asynchronous Actor Critic (A3C) Tensorflow implementation from Google's DeepMind using Tensorflow and Openai Gym.

NAME	Street View Sequence Recognition	Sep 2016
GITHUB	Github code link	

- Deep Convolutional Network for recognizing sequences of digits from google maps street view images. Deployed several techniques for analyzing and synthetically increasing dataset's varieties to achieve very good results.

NAME	Creating Customer Segments - Unsupervised Learning	June 2016
GITHUB	Github code link	

- Reviewed unstructured data to understand the patterns and natural categories that the data fits into. Used multiple algorithms and both empirically and theoretically compared and contrasted their results. Made predictions about the natural categories of multiple types in a dataset, then checked these predictions against the result of unsupervised analysis.

NAME	Predicting Boston Housing Prices	May 2016
GITHUB	Github code link	

- Built a model to predict the value of a given house in the Boston real estate market using various statistical analysis tools. Identified the best price that a client can sell their house utilizing machine learning.

REFERENCES

- **Dr Jean-Noel Candau**, Scientist, Great Lakes Forestry Centre, Sault Ste Marie, Ontario, Canada. *Jean-Noel.Candau@NRCan-RNCan.gc.ca*
- **Dr Esbel Tomás V. Orellana**, Teacher, The State University of Santa Cruz, Ilhéus, Brazil. *valero.esbel@gmail.com*
- **Mydiã Falcão Freitas**, Software Engineer, RCS Informática, Itabuna, Brazil. *mydyfreitas@gmail.com*