Thalles Santos Silva

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https://github.com/thalles753/

Work Experience

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

- 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**	

- 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 *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)**	

- 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**	Ilhéus, Brazil
	Algoma University	Sault Ste Marie, Canada
Exchange	**Science Without Borders** - *1.5 year scholarship from the Brazilian Government.*	

- 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. *Awarded First Prize in Computer Science Software Engineering Class Contest.*
- **Application for compressing and encrypting text files** using Huffman 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**	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 courses	**6 Computer Science courses**; High Performance Computing; Deep Learning; Artificial Intelligence; 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).*

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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

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*