Thalles Santos Silva

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https://sthalles.github.io

Work Experience

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

- *Chief data scientist* creator of Time Series forecasting tool which contributed to the company's expansion in the field of data science allowing for new project contracts.
- *Project Owner and data scientist* of internal research project on infrastructures for Machine Learning deployment on the cloud.
- Author of many workshops and technical talks and co-creator of the company-wide Machine Learning course.

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**
Deep Learning	Generative Models, Quantization, Optimization, Model Selection, Semantic Segmentation, Classification, Regression, Reinforcement Learning, Object Detection, Language Models, Time Series forecasting, Data preparation, and cleaning.

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Projects

Title **Deep Learning detection system for spruce budworm insect counting** **2019**
Technologies **Tensorflow Object detection API, MobileNet, and SSD.**

- Data acquisition, cleaning, annotation, and preparation.
- Model selection, optimization, quantization, and deployment to clients infrastructure.

Title **How to train your own FaceID ConvNet using TensorFlow Eager execution** **Sep 2018**

- Unsupervised training for face similarity optimization - **Github**, **Medium Article**
- Achived excelent results using the CelebA faces dataset.

Title **An intuitive introduction to Generative Adversarial Networks (GANs)** **Dec 2017**

- Implementation and explanation of the DCGAN architecture and concepts - **Github**, **Medium Article**

Title **Deep Convolutional Semantic Segmentation Networks** **Sep 2017**

- Tensorflow implementation of Google's DeeplabV3 network. Emphasizes best practices of data pre-processing, augmentation, and training techniques. Popular **Github** repository with **over 600 stars**. **Medium Article**

Title **Recurrent Neural Netowork translation system** **Mar 2017**

- Designed and created a Sequence to Sequence LSTM to translate English sentences into French. Uses Tensorflow seq2seq API and data processing for text models. **Github**

Title **Asynchronous Actor Critic - A3C - Tensorflow Implementation** **Feb 2017**

- Implemented Google's DeepMind (A3C) algorithm using Tensorflow and OpenAI Gym. **Github**
- Achieved excellent results on various Atari games.

Overall Achievements

- Medium Machine Learning/Deep Learning **Top writer**.
- Technical workshop **presenter** at Papis.io 2019 – *Everything you need to know about Tensorflow 2.0.* **Mediun Article**.

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