Class Rank: 1st Percentile: 99th

Daniel Severo

GitHub - LinkedIn - danielsouzasevero@gmail.com - dsevero.com

FDUCATION

University of Toronto

Exchange Program in ECE 2013 to 2014 | Toronto, Canada

Federal University of SC

B.Sc. in Electronics Engineering 2010 to 2015 | Florianópolis, Brazil

AWARDS

Student Merit Award

Faculty Elected Best Student in the Class of 2015/1

Student Merit Medal

Highest GPA of the Class of 2015/1

SwB Scholarship

Awarded a full scholarship that covered tuition, transportation, necessary materials and living costs to study 2 academic semesters at the University of Toronto.

PROGRAMMING

Languages

Python • Scala

Tools & Libs.

pandas • Sklearn • Jupyter Dask • Spark • Neo4j

Open Source

Dask Dask-ML Striatum

SPOKEN LANGUAGES

English

Native • 2018 IELTS 8.5

Portuguese

Native

Spanish

Basic

RESEARCH

Syrian-Lebanese Hospital

Advisor: Prof. Estevam Hruschka | Jan 2019 - Now

Working on Named Entity Recognition with FHIR and Semantic Search methods for health-care text data in Brazilian Portuguese.

University of Toronto

Advisor: Prof. Frank Kschischang | May 2014 - Sep 2014

Technical report with a mathematical proof of functionality, of a highly efficient pseudo-random number generator: The Ziggurat Method; Research in Physical Layer Network Coding presented at UnERD 2014.

Federal University of Santa Catarina

Advisor: Prof. Danilo Silva | Sep 2014 - Fev 2015

Worked on lowering the complexity of a wireless non-coherent transmission scheme known as Blind Compute-and-Forward. Results were presented at the SP Coding School at São Paulo, Brazil.

Advisor: Prof. Eduardo Bezerra | Aug 2012 - Apr 2013

Management of the Floripa-Sat project, thought up by researchers and students of the Federal University of Santa Catarina, it aims at and launching nano-satellites for academic purposes.

WORK EXPERIENCE

Independent Contractor | Machine Learning Engineer

January 2018 - Today | Remote

- Developing a Fast Healthcare Interoperability Resources DataLake for running high volume machine learning models.
- Worked on feature engineering and mathematical modeling for clustering algorithms used to segment patients into similar health group.
- Ranked patients by future spendings using financial data achieving a precision at n=1,000 of 50% from a 15,000 total.
- Predicted patient LOS (Length of Stay) with regression techniques and hospital sensor data;
- Modified CoSimRank to create a similarity measure between developers and companies using Stack OverFlow data using Neo4j and Python.

Chaordic | Head of Data Science

May 2016 - January 2018 | Florianópolis, Brazil

- Developed recommendation algorithms for E-commerce customers;
- Provided ad-hoc big data analyses to find insights from our data;
- Design and monitor competitive A/B experiments devised to validate our systems performance in the face of competition.
- Internal A/B testing tool using the SciPy and Jupyter stack;
- Bandit algorithms for online optimization;

CERTI Foundation | Research Engineer

May 2015 - May 2016 | Florianópolis, Brazil

- Implemented signal processing routines (filter design and realization) in C.
- Programmed back-end and front-end Python software for Raspberry Pi.
- Embedded eLua on a platform previously developed by CERTI.