

SHORT BIO	Graduate student with 5 terms of experience TAing, 3 years as a Data Scientist in Brazil, and 2 years as a Machine Learning Engineer implementing solutions in PyTorch for healthcare applications. Contributed to open-source projects such as Dask and Dask-ML.		
EDUCATION	University of Toronto		
	<i>Electrical & Computer Engineering</i>		
	Master of Applied Science (M.A.Sc.)		Starting Fall 2020
	Undergraduate Exchange Program (1 year)		2013 - 2014
	Federal University of Santa Catarina, Brazil		2010 - 2015
	<i>Bachelor of Science in Electronics Engineering</i>		
	First Class Honours, 99th percentile.		
AWARDS	Vector Scholarship in Artificial Intelligence Recipient 2020-21	2020	
	The Vector Scholarship in AI supports the recruitment of top students to AI-related master's programs in Ontario and is valued at \$17,500.		
	https://vectorinstitute.ai/aimasters		
	NSERC Applied Research Rapid Response to COVID-19 Grant	2020	
	Our project titled "Canadian Hospital Simulator For Management of COVID19 Cases and Contact Tracing" was awarded \$75,000.00.		
	https://www.nserc-crsng.gc.ca/Innovate-Innover/CCI-COVID_eng.asp		
	Virtual Design Challenge Winner	2019	
	Won 1st place at the VDC hosted by The University of British Columbia with my paper <i>Proof of Novelty</i> . Received a cash prize of \$3,000.		
	https://github.com/dsevero/Proof-of-Novelty		
	Student Merit Award and Medal	2015	
	Graduated with the highest GPA ever obtained (at the time) for my major. Elected "Best Student" by the faculty of Electrical & Electronics Engineering at the Federal University of Santa Catarina.		
	Science Without Borders Scholarship	2013	
	Awarded a full scholarship that covered tuition, transportation, necessary materials and living costs to study 2 academic semesters at the University of Toronto.		
TEACHING EXPERIENCE	Federal University of Santa Catarina		
	<i>Teaching Assistant</i>		
	Assisted professors by ministering tutorials, preparing lecture materials and helped students individually at regular office hours.		
	• Communications Theory	Fall and Winter 2015	
	Analog modulations in amplitude and frequency; multiplexing; noise in communication systems; pulse modulation; analog-to-digital conversion; digital transmission in baseband and passband.		
	• Introduction to Electronics	Fall and Winter 2013	
	Operational amplifiers; diodes; the bipolar junction transistor; field effect transistors; optoelectronic components.		
	• Single-Variable Calculus	Fall 2010	
	Real-valued functions; limits; continuity; derivatives and applications; definite and indefinite integrals; integration techniques; improper integrals.		

	CERTI Foundation <i>Intern Programming Instructor</i> Responsible for the technical training of new and current interns. Created a training course in LabVIEW programming that is still in use as of 2020.	2010 - 2013
UNPUBLISHED RESEARCH PROFESSIONAL SERVICE	[severo2019ward2icu] NeurIPS 2019: Conference on Neural Information Processing Systems Reviewer for the Machine Learning for Health (ML4H) workshop.	
OPEN SOURCE CONTRIBUTIONS	Dask: Scalable analytics in Python https://github.com/dask/dask/pulls?q=author:dsevero Dask-ML: Scalable Machine Learn with Dask https://github.com/dask/dask-ml/pulls?q=author:dsevero Ward2ICU: A Vital Signs Dataset of Inpatients from the General Ward https://github.com/3778/Ward2ICU	
PROFESSIONAL EXPERIENCE	Independent Contractor <i>Machine Learning Engineer & Researcher</i> Developed a Fast Healthcare Interoperability Resources DataLake for running high volume machine learning models; Feature engineering and mathematical modeling for clustering algorithms used to segment patients into similar health groups; 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.	2018 - Current

Linux Impulse 2016 - 2018
Head of Data Science

Developed recommendation algorithms for E-commerce customers; Provided ad-hoc big data analyses to find insights from our data; Designed and monitored 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

Wavetech Technology Solutions 2015
Embedded Systems Engineering Intern.

Worked on microcontroller programming in C/C++ for cochlear implants.

CERTI Foundation 2010 - 2013 (Intern.)
Implemented signal processing routines (filter design 2015 - 2016 (R. Eng) and realization) in C; Programmed back-end and front-end Python software for Raspberry Pi; Embedded eLua on a platform previously developed by CERTI.

WEG Industries Summers 2011 and 2012
Electrical Engineering Intern.

Software upgrade, in LabVIEW, of an automatic calibrator of multimeters in order to account for different input frequencies; Conception and implementation of a hardware and software (LabVIEW) system that acquires, processes and stores data of specific parameters of electric motors.

REFERENCES

Prof. Ashish Khisti University of Toronto
Professor and Canada Research Chair (Tier II)
Department of Electrical & Computer Engineering
<https://www.comm.utoronto.ca/~akhisti/>

Prof. Frank R. Kschischang University of Toronto
Distinguished Professor of Digital Communication
Department of Electrical & Computer Engineering
<https://www.comm.utoronto.ca/frank/>

Prof. Danilo Silva Federal University of Santa Catarina
Associate Professor
Department of Electrical and Electronic Engineering
<http://danilosilva.sites.ufsc.br/index.html>

Prof. Chen Feng The University of British Columbia
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<https://people.ok.ubc.ca/cfeng01/index.html>