



Claudio Scheer

SENIOR SOFTWARE ENGINEER

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About

I have been working as a software engineer for about ten years and I'm also a Master in Computer Science. I have experience working with multiple teams, including academic and industrial sectors, as well as a wide range of technologies. I'm highly driven by challenges and opportunities to explore new ways to solve problems.

Education

Master's Degree in Computer Science

Porto Alegre - RS, Brazil

PONTIFICAL CATHOLIC UNIVERSITY OF RIO GRANDE DO SUL - PUCRS

Mar. 2020 - May 2023

- Advisor: Dalvan Griebler, Ph.D.
I am a member of GMAP (https://gmap.pucrs.br), a research group focused on Big Data and in High-Performance Computing (HPC).
For the master's thesis, I focused on utilizing machine learning techniques to enhance parallelism on GPUs. Throughout my research, I extensively utilized Python and C++ programming languages. I also leveraged some libraries for parallel programming, including FastFlow, TBB, and SPar. Additionally, I employed popular data analysis libraries and tools such as Pandas, Matplotlib, Jupyter Notebook, and NumPy. To implement machine learning algorithms, I utilized PyTorch and scikit-learn libraries.

Bachelor of Information Systems

Três de Maio - RS, Brazil

TRÊS DE MAIO FACULTY - SETREM

Feb. 2015 - Sept. 2019

- Course focused on general understanding of the area of information technology, deepening knowledge on software development.
The final bachelor's thesis was related to the use of deep learning in agriculture.

Skills

Table with 2 columns: Skill Category and Skills. Categories include Idioms, Programming Languages and Libraries, Databases & Servers, Development, and Personal.

Professional Experience

Upstart 13

Remote (USA)

SENIOR SOFTWARE ENGINEER

Sep. 2022 - PRESENT

- In the context of multiple ongoing projects within the company, I am a developer contributing to a specific project. Here is the project I've been involved with so far.
With the Ironside Group, I am involved in designing and implementing an API that consolidates data from various sources to present a unified data interface. We predominantly use Snowflake, Python, and AWS to manage the data flow. To ensure our endpoint's performance, we employ AWS X-Ray and jMeter for load testing. Additionally, my daily responsibilities include writing ETL processes to furnish the required data for our reporting team.
Additionally, I've been helping Upstart 13 by interviewing candidates for open positions for React and Node.js.

Kinect Consulting

Remote (USA)

SENIOR SOFTWARE ENGINEER

Nov. 2021 - PRESENT

- Kinect Consulting is a subsidiary company of World Fuel Services.
I engage in the creation of serverless applications utilizing Amazon Web Services (AWS). My experience extends across numerous AWS tools, including but not limited to Lambda, SQS, SNS, DynamoDB, OpenSearch, and ECS. For infrastructure management, we rely on both CloudFormation and Terraform.

Freelancer

SENIOR SOFTWARE ENGINEER

[Remote \(Brazil\)](#)

Feb. 2019 - Nov. 2021

- Experience working with serverless applications on AWS and REST API.
- I mainly worked with Node.js/TypeScript, React, and Python on these projects, using AWS as cloud provider.

Três de Maio Faculty - SETREM

IT PROFESSOR

[Três de Maio - RS, Brazil](#)

Jan. 2019 - Mar. 2020

- Professor of Arduino.
- Professor of programming logic with Java.

Três de Maio Faculty - SETREM

SOFTWARE ENGINEER

[Remote \(Brazil\)](#)

Nov. 2014 - Nov. 2021

- Education-related software development.
- Experience with serverless applications on AWS and on-premise softwares. I mainly worked with Node.js, C#, and Python.

Projects

SAP

SOFTWARE ENGINEER

[Porto Alegre - RS, Brazil](#)

June 2021 - March 2022

- **About:** My part on the project was to implement a new snapshot protocol for a distributed data stream processing platform. I mainly worked with Go and Kubernetes. This project was part of my master's scholarship.

A1 Lab

SOFTWARE ENGINEER

[Open Source](#)

July 2020 - PRESENT

- **URL:** <https://github.com/lab-a1>
- **About:** In my spare time, I focus on developing artificial intelligence projects, primarily centered around machine learning. These projects serve as a means for me to explore and study the field of artificial intelligence through practical problem-solving. You can find some projects I work on within my GitHub organization.

Academic Publications

Optimal Threads per Block Configurations for NPB-CUDA with Q-Learning

AUTHOR

[Article](#)

May 2022

- **About:** We use Q-Learning, a reinforcement learning algorithm, to search in a large combinatorial space for the best combinations of threads per block configuration for the GPU operators of an application.
- **Status:** In revision.

Performance Data Visualization of Linux Events on Multicores

AUTHOR

[Article](#)

Sep. 2021

- **Conference:** Symposium on High Performance Computer Systems (WSCAD)
- **About:** We created a tool-chain to monitor and profile performance metrics from any application using Perf (the Linux profiling subsystem) and created a dashboard to visualize captured data. You can access the dashboard website [here](#).
- **Status:** Accepted and published.
- **DOI:** 10.5753/wscad.2021.18516