

CAIO TONETTI

Data Engineer &
Software Engineer

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WHO AM I?

Caio Henrique Segawa Tonetti. I am a brazilian data engineer. My main work interests are in Optimization, Open Software, Compilers, Graph Theory and Big Data Infrastructure, but I like to delve in everything related to applied computer science, automation, AI, cloud and self-hosting as a hobby.

LANGUAGES

Portuguese (Brazil) - native
English - proficient
Italian - basic

WORK EXPERIENCE

- Dec/'21 – Current **Mid Data Engineer** Inter
Working as a Data Engineer at Inter. Responsible for implementing, maintaining and organizing data pipelines and libraries.
Python / Spark / Airflow / Nifi / AWS
- Oct/'20 – Dec/'21 **Mid Data Engineer** Eleflow Big Data Analytics at Work
Worked as a outsourced Data Engineer in Lojas Americanas SA. Responsible for multiple cloud infrastructures dedicated to data analysis and business intelligence.
Python / Databricks / Agile / Azure Cloud
- Oct/'17 – Dec/'17 **Back-end developer internship** SG Sistemas
Worked in the backend of a company specialized in Enterprise Resource Planning software.
C++ / Qt / Agile

EDUCATION

- Mar/'18 – Jul/'22 **Master's Degree** Universidade Federal de Minas Gerais
Researching the problem of Token Swapping on on specific graph classes and proposing new integer linear models for this same problem. Participated in the Academic Excellence Program scholarship (PROEX - CAPES) from March 2019 to March 2020.
Advisor: Vinícius Fernandes dos Santos / Co-advisor: Sebastián Urrutia
- Mar/'12 – Jan/'18 **Bachelor's Degree on Computer Science** Universidade Estadual de Maringá
Researched the effects of static and dynamic code analyzers on the quality of optimizations in a scientific initiation program (PIC).
Advisor: Anderson Faustino da Silva

RELEVANT PROJECTS

- Mar/'20 – Jul/'20 **Google Summer of Code 2020 Mentor** KDE Community
Mentored one student for the ROCS Graph Theory IDE. His project is focused on improving the graph layout capabilities of the software by implementing force-directed graph drawing algorithms.
- Mar/'19 – Jul/'19 **Google Summer of Code 2019 Student** KDE Community
Worked on the ROCS graph theory IDE using the C++ programming language. More information at my status report.
- Jan/'18 – Jul/'18 **Teacher Assistant** Universidade Federal de Minas Gerais
Teacher assistant in the class of **Project and Analysis of Algorithms** for graduate students.
- Feb/'13 – Dec/'17 **Co-founder and Administrator** Hackerspace Maringá
I am one of the co-founders of the hackerspace in the city of Maringa - Paraná. I was the vice-president for one year and president of the organization for almost three years.

Mar/'17 – Apr/'17	HackBrazil Participant HackBrazil was a one month long hackathon that our team, with the project InVisum, a prototype for a large scale database synchronization and processing system, got to the top 5 projects, presenting at the Brazil Conference at Harvard & MIT.	Brazil Conference
Jan/'14 – Jul/'16	Teacher Assistant Teacher assistant in the classes of Architecture and Organization of Computers (2014) and Formal Languages and Automata (2015 to 2016).	Universidade Estadual de Maringá

RELEVANT PAPERS

Jun/2020	Integer Linear Programming Models for Sequential and Parallel Token Swaps in Graphs LII Simpósio Brasileiro de Pesquisa Operacional (SBPO)
May/2020	Enhancing the Jikes RVM Adaptive Optimization System IEEE Latina
Mar/2019	Pinhão: An Auto-tuning System for Compiler Optimization Guided by Hot Functions Journal of Universal Computer Science
Sep/2018	Enfield: An OpenQASM Compiler IX Congresso Brasileiro de Software (Second Best Tool Award)
Oct/2016	A Design Space Exploration of Compiler Optimizations Guided by Hot Functions International Conference of the Chilean Computer Science Society

CERTIFICATIONS

Dec/2022	Astronomer Certification DAG Authoring for Apache Airflow astronomer.io
Sep/2022	Astronomer Certification for Apache Airflow Fundamentals astronomer.io
Aug/2021	Microsoft Certified: Azure Data Fundamentals Microsoft
Sep/2020	Mathematics for Machine Learning: Multivariate Calculus Coursera
Aug/2020	Mathematics for Machine Learning: Linear Algebra Coursera