

# CAIO TONETTI

Software Engineer &  
Data Engineer

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## WHO AM I?

I am a Brazilian student currently finishing my master's degree and working as a 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 and AI as a hobby.

## LANGUAGES

**Portuguese (Brazil)** - native  
**English** - proficient

## WORK EXPERIENCE

- 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
- Oct/'20 – Current **Data Engineer** Eleflow Big Data Analytics at Work  
Working as a outsourced Data Engineer in Americanas SA. Responsible for multiple cloud infrastructures dedicated to data analysis and business intelligence.  
Python / Databricks / Agile / Azure Cloud

## EDUCATION

- Mar/'18 – Jul/'21 **Master's Degree (Current)** Universidade Federal de Minas Gerais  
Researching the problem of Token Swapping 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/'18 – 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/'17 – Apr/'17 **HackBrazil Participant** Brazil Conference  
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.
- Jan/'14 – Jul/'18 **Teacher Assistant** Universidade Estadual de Maringá / Universidade Federal de Minas Gerais  
Teacher assistant in the classes of **Architecture and Organization of Computers** (2014 - UEM) and **Formal Languages and Automata** (2015 to 2016 - UEM) and **Project and Analysis of Algorithms** (2018 - UFMG) for graduate students.

## RELEVANT PAPERS

- Jun/'20 **Integer Linear Programming Models for Sequential and Parallel Token Swaps in Graphs**  
LII Simpósio Brasileiro de Pesquisa Operacional (SBPO)
- May/'20 **Enhancing the Jikes RVM Adaptive Optimization System**  
IEEE Latina