CAIO TONETTI

Researcher &
Software Developer

Brazil
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Caio Tonetti

WHO AM I?

I am a brazilian student and researcher currently finishing my master's degree. My main research interests are Optimization, Graph Theory and Algorithms, but I like to delve in everything related to applied computer science and eletronics as a hobby. I am also a lover of everything open-source.

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`

EDUCATION

Mar/'18 – Jul/'20 **Master's Degree (Current)** — **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 / Co-advisor`

Feb/'07 – Jan/'13 **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`

RELEVANT PROJECTS

Mar/'18 – Jul/'20 **Google Summer of Code 2020 Mentor (Current)** — **KDE Community**
Mentoring 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.

Feb/'07 – Jan/'13 **Google Summer of Code 2019 Student** — **KDE Community**
Collaborated to the ROCS Graph Theory IDE, under the mentoring of Tomaz Canabrava and Adriaan de Groot. My project focused in the overall improvement of the software.

Feb/'13 – Dec/'17 **Co-founder and Admnistrator** — **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** — **Brazil Conference**
HackBrazil was a one month long hackathon that our team, with the project InVisum, a prototype for a large scale database syncronization and processing system, got to the top 5 projects, presenting them in Boston at the Brazil Conference.

RELEVANT PAPERS

May/'20 **Enhancing the Jikes RVM Adaptive Optimization System**
IEEE Latina

Mar/'19 **Pinhão: An Auto-tunning System for Compiler Optimization Guided by Hot Functions**
Journal of Universal Computer Science

Oct/'16 **A Design Space Exploration of Compiler Optimizations Guided by Hot Functions**
International Conference of the Chilean Computer Science Society