

GABRIEL BASTOS

ABOUT & CONTACT

NAME: Gabriel Silva Bastos
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WORK EXPERIENCE

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| NOV. 2020 APR. 2019 | MAV TECHNOLOGY Software Engineer Activities and technologies: <ul style="list-style-type: none">◦ Maintenance of legacy systems.◦ C++, Python and Lua programming.◦ Microservices architecture, docker. |
| APR. 2019 MAR. 2018 | FEDERAL UNIVERSITY OF MINAS GERAIS Undergraduate research – Speed laboratory Activities: <ul style="list-style-type: none">◦ IoT malware analysis.◦ Scientific paper writing. Publications: <ul style="list-style-type: none">◦ Identifying and Characterizing Bashlite and Mirai C&C Servers Published in 2019 IEEE Symposium on Computers and Communications◦ Identificação de Servidores C&C e Variantes de Malwares Bashlite e Mirai Published in 2019 Brazilian Symposium on Networks and Distributed Systems |
| MAR. 2018 MAR. 2017 | FEDERAL UNIVERSITY OF MINAS GERAIS Computer Programming Prefect Activities: <ul style="list-style-type: none">◦ Assistance to students in practical activities. Topics: <ul style="list-style-type: none">◦ Sequential and combinational circuits.◦ Scilab programming. |
| SEP. 2016 NOV. 2015 | BRAE BIOTECNOLOGY Junior systems analyst Activities: <ul style="list-style-type: none">◦ Desktop software development for an electrocardiograph.◦ Desktop software development for a multi-parameter monitor. Technologies: <ul style="list-style-type: none">◦ C# programming.◦ Microsoft Windows Presentation Foundation. |
| JUL. 2015 FEB. 2015 | BRAE BIOTECNOLOGY Internship – Electronics technician Activities: <ul style="list-style-type: none">◦ Co-development of an electrocardiograph.◦ Firmware software development for the electrocardiograph. Technologies: <ul style="list-style-type: none">◦ Keil μVision embedded development environment.◦ Embedded C programming. |

EDUCATION

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| 2022 | FEDERAL UNIVERSITY OF MINAS GERAIS |
| 2016 | Undergraduate in Information Systems |
| 2015 | UFMG's TECHNICAL HIGH SCHOOL |
| 2013 | Electronics technician |

SKILLS

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| ENGLISH | Advanced reading, writing, hearing and speaking. |
| PROGRAMMING LANGUAGES | I'm familiar with the following programming languages: C, C++, C#, Rust, Haskell, F#, Python, Lua. |
| TECHNOLOGIES | I'm familiar with the following technologies: Linux, bash, git, github, docker, emacs. |

PERSONAL INTERESTS

I love computers and have been programming since I was 14 years old.

Some of the topics of my interest:

- Programming languages and compilers.
- Type systems, programming paradigms.
- Systems programming.
- Clean code and software engineering techniques in general.
- Open source software.

Projects

Besides personal projects, I also have made contributions to at least 15 open source repositories. All of my activity can be found at my [github](#). Here are some of my projects:

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| HUSH | https://github.com/gahag/hush Hush is a modern Unix shell based on the Lua programming language. Currently a work in progress. |
| DCI | https://github.com/gahag/dci DCI-Closed ¹ : a frequent closed itemset mining algorithm, implemented in Rust. |
| BGREP | https://github.com/gahag/bgrep Bgrep is a <i>grep</i> spin for binary patterns and files. |
| FSQL | https://github.com/gahag/fsql FSQL is a tool written in haskell to query the file system with SQL-like syntax. |
| TPC | https://github.com/gahag/tpc TPC is a template based parser combinator for C++. |

¹http://hpc.isti.cnr.it/~claudio/papers/2004_FIMI_dci_closed.pdf