

# GABRIEL BASTOS

## ABOUT & CONTACT

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## WORK EXPERIENCE

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NOV. 2020 APR. 2019	MAV TECNOLOGY Software Engineer  Activities and technologies: <ul style="list-style-type: none"><li>◦ Maintenance of legacy systems.</li><li>◦ C++, Java and Lua programming.</li><li>◦ Microservices architecture, docker.</li></ul>
APR. 2019 MAR. 2018	FEDERAL UNIVERSITY OF MINAS GERAIS Undergraduate research – Speed laboratory  Activities: <ul style="list-style-type: none"><li>◦ IoT malware analysis.</li><li>◦ Scientific paper writing.</li></ul> Topics: <ul style="list-style-type: none"><li>◦ Data mining and analysis, linux infrastructure.</li><li>◦ Python and Bash scripting.</li></ul>
MAR. 2018 MAR. 2017	FEDERAL UNIVERSITY OF MINAS GERAIS Computer Programming Prefect  Activities: <ul style="list-style-type: none"><li>◦ Assistance to students in practical activities.</li></ul> Topics: <ul style="list-style-type: none"><li>◦ Sequential and combinational circuits.</li><li>◦ Scilab programming.</li></ul>
SEP. 2016 NOV. 2015	BRAE BIOTECNOLOGY Junior systems analyst  Activities: <ul style="list-style-type: none"><li>◦ Desktop software development for an <a href="#">electrocardiograph</a>.</li><li>◦ Desktop software development for a <a href="#">multi-parameter monitor</a>.</li></ul> Technologies: <ul style="list-style-type: none"><li>◦ C# programming.</li><li>◦ Microsoft Windows Presentation Foundation.</li></ul>
JUL. 2015 FEB. 2015	BRAE BIOTECNOLOGY Internship – Electronics technician  Activities: <ul style="list-style-type: none"><li>◦ Co-development of an <a href="#">electrocardiograph</a>.</li><li>◦ Firmware software development for the electrocardiograph.</li></ul> Technologies: <ul style="list-style-type: none"><li>◦ Keil <math>\mu</math>Vision embedded development environment.</li><li>◦ Embedded C programming.</li></ul>

## 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

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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:

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

<sup>1</sup>[http://hpc.isti.cnr.it/~claudio/papers/2004\\_FIMI\\_dci\\_closed.pdf](http://hpc.isti.cnr.it/~claudio/papers/2004_FIMI_dci_closed.pdf)