Pedro da Costa Abreu Jr.

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"Nullius in verba"

Education

2011–2017 **Bachelor Degree in Computer Science**, *University Of Brasilia (UnB)*, Brasilia.
IRA (GPA): 3.95/5

Honours Thesis

Title *Mechanization and Overhaul of Feature Featherweight Java using Coq*

Supervisor Rodrigo Bonifácio

Description In this work, we detail design decisions related to our process of first specifying *Featherweight Java* in `Coq` and then evolving such a specification to prove the safety of the type system an overhaul version of *Feature Featherweight Java*—a core-calculus for a family of languages that address variability management in highly configurable systems, such as software product lines.

Experience

Vocational

Summer 2014 **Intern**, *Trustworthy Systems*, NICTA, Sydney.
Verification of file systems using Isabelle.

2015–2017 **Intern**, *Tribunal de Contas da União*, Brasilia.
Development and maintenance of different kinds of tests, such as integration, end to end, component, performance, *etc.*

2017–Current **Researcher**, *Finatec & Brazilian Army*, Unb, Brasilia.
Modelling of the system using Alloy.

Miscellaneous

2013, 2015/1 **Teaching Assistant**, *Logic for Computer Science*, UnB.

2014/1 **Teaching Assistant**, *Algebra 1*, UnB.

2014–2015 **Exchange**, *University of Sydney*, Sydney.
Fully funded by CNPq via the Science Without Borders program to study one year at USyd.

2017/1 **Head of Tutoring**, *Introduction to Computer Science*, UnB.
In charge for the selection and management of the tutoring body for the discipline of Introduction to Computer Science, consisting of about 30 tutors.

2017/1 **Teaching Assistant**, *Software Foundations Course*, UnB.

Languages

Portuguese	**Mother Tongue**
English	**Fluent**
Spanish	**Intermediate Understanding, Basic Speech**
French	**Basic**
Esperanto	**Advanced**

Computer skills

Programming Language	C/C++, Java, Python, Haskell, Coq, Isabelle
Familiar With	C#, SML/NJ, Java Bytecode, Alloy
Web	HTML, Javascript, Typescript, Angular2
Test Frameworks	Jasmine, Protractor, Concordion, JMeter, WebDriver
IDE	Vim, Intellij Idea, Eclipse, CoqIDE

Attended Conferences

- CBSoft 2013 (Worked as Staff), Brasilia, Brazil
- SBMF 2016 (Funded by UnB), Natal, Brazil
- OPLSS 2017 (Funded by Finatec and OPLSS), Portland, United States
- ITP 2017 (Attending in september), Brasilia, Brazil
- SBMF 2017 (Attending in november), Recife, Brazil

References

- Rodrigo Bonifácio, UnB – rbonifacio@cic.unb.br
- Ben Lippmeier, UNSW – benl@ouroborus.net
- Gabriele Keller, UNSW – gabriele.keller@unsw.edu.au