Curriculum Vitae

Name	André Sá
Phone number	+351969089204
Email address	silky.sa@gmail.com
GitHub	https://github.com/siiky

Portuguese	Native
English	C1 (self-assessment)
Japanese	B1 (BabeliUM Language Institute)

Education

Currently studying Computer Science at Minho University. Relevant grades – where applicable, (practical grade/exam grade/final grade):

- Operating Systems (16/17/17) – Study of POSIX (mostly UNIX) systems and implementation of crude parallel programs in C; the practical assignment consisted in developing a notebook processor (like Jupyter), that would execute the commands and embed the results in place;

- Concurrent Programming (19/17.8/18) – Classic concurrent and parallel programming with monitors/semaphores/locks in Java, and concurrent and distributed programming by message passing in Erlang; the practical assignment consisted in developing a multiplayer game (like hole.io), the client in Processing (Java) and the server in Erlang;

- Computation Systems (12) – Study of common computer architectures (x86), understanding assembly code generated by compiled C, differences between CISC and RISC;

- Imperative Programming (13) – Introduction to C and data structures in imperative programming languages;

Work Experience

Internship at Accenture (July of 2019)

My assigned job was developing unfinished features, aswell as new features, for a consumer facing product. These features entailed working with Augmented Reality in iOS. In the process, I've also learned about the Scrum framework.

Programming Languages

From University and personal projects, the languages that I have experience with, enjoyed working with, and would like to work with again:

- C
- Scheme
- Erlang
- Haskell

From reading books, papers and blogs, the languages that I would like to learn:

- Rust – safe systems language, with an advanced type system;
- Idris – for refinement and dependent types;
- Common Lisp – for advanced metaprogramming and arbritary compile-time computation;

Additional Information

Events

I have participated in programming contests, such as Google Hash Code, Code Jam, Kickstart, MIUP and Battle of Universities.

Personal Projects

During my spare time I have developed personal projects and contributed to open source projects. The most notable among them:

- https://github.com/siiky/star – A simple `tar` clone;
- https://github.com/siiky/c-utils – Generic data structures and utilities written in C, tested with QuickCheck-like tests;
- https://github.com/universal-ctags/ctags – Found and fixed two `NULL`-dereference bugs;
- https://wiki.call-cc.org/eggref/5/cis – Found and reported a bug;

Areas of Interest

I have a special interest in functional and distributed programming and in code quality. I believe low-level and performance to be very important aspects of programming and programming languages. Because of this, the languages that caught my eyes most recently are CHICKEN Scheme and Rust.

I'm a proponent of the FLOSS movement and sharing of knowledge in general.