Mário Feroldi Filho

CONTACT INFORMATION	Phone: +55 18 99796-9367 Email: mferoldif@gmail.com	github.com/feroldi linkedin.com/in/mferoldif

EDUCATION

Salesiano Auxilium Catholic University, Araçatuba, Brazil **Feb 2015 – Dec 2019**
B.S., Computer Engineering
GPA: 3.45/4.0

PROFESSIONAL EXPERIENCE

Grupo Salutem, *Software Engineer Intern* **Jan 2019 – present**
- Developed a clinical appointment scheduling mobile application for the AME clinics.
- Allows patients to schedule clinic appointments from their own mobile devices.
- Used Google's Flutter SDK and the Dart language.

RESEARCH EXPERIENCE

Salesiano Auxilium, *Undergraduate Research* **Aug 2018 - Jun 2019**
- Researched compiler optimizations on SSA-based intermediate representations to improve code generation quality.
- Developed a compiler for a designed IR with the optimization strategies to experiment with contrasting arquitectures (x86, MIPS, and ARM).

Salesiano Auxilium, *Undergraduate Thesis* **Feb 2019 - Dec 2019**
- Researched combinations of compiler optimizations on Value State Dependency Graph (VSDG), which can mitigate (or at least delay) the problems related to phase ordering.
- Showing how the VSDG's normalizing property helps with optimization implementation.
- Improving optimization opportunity by optimizing data dependent computations and combining optimizations that interact.

PERSONAL PROJECTS

CCI: C11 Compiler Infrastructure github.com/feroldi/cci
- Developed a C compiler infrastructure to manipulate and compile C code.
- Meant as a personal research project to acquire hands-on experience on compiler engineering.
- Used C++17 for development, GoogleTest for unit tests, and CMake for the build system.

Ruke: A microkernel experiment written in Rust github.com/feroldi/ruke
- Created a microkernel for the x86 arquitecture.
- An experiment with the Mozilla's Rust programming language.
- Used Rust for most of the development, and x86 Assembly for the low-level bits.

LANGUAGES

Advanced English
Native Portuguese

TECHNICAL SKILLS

Bash, C, C++, C#, Python, Rust, Java, Git, x86 Assembly, Dart, Linux, PostgreSQL, Flutter SDK

OTHERS

Top 10% on C++ tag on Stack Overflow	**since Jan 2019**
Placed 348th out of 1156 at the XXIII Maratona SBC First Phase	**Sep 2018**
Undergraduate Teaching Assistant for Compilers	**Aug 2018**
Gave a presentation to my class on C++14 and its features	**Aug 2016**
Undergraduate Teaching Assistant for Programming Logic and Algorithms	**Jan 2015**