

Pierre Misse

Software Developer



30 years old



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About me

My journey in computer science started through a few tasks as a freelancer. After a year, I decided to get a Master's degree to strengthen my knowledge. I am currently able to work on a PHD dissertation on one of my favourite computer science topics: Virtual Machines.

Skills

C, C++, Pharo (Smalltalk), Latex

Clisp, Java, Python

Scheme, C#, Php, Bash

Object oriented programming

Meta-programming, Testing

Compilation, Scientific writing

Algorithmic

Multithreading, IPC, Network

Database and big data concepts

Knowledge of:

- Formal Methods and Program Proof
- Agent-Oriented Programming
- Distributed Algorithmic
- Project Management Method

Languages

French : native

English : fluent

Education

2017 Master's degree "AIGLE" Montpellier University
Architecture and engineering of software and web.

Important Projects

- Since 2021 Project Polyphemus: Retroengineering of the Pharo Image format to improve analysis and debugging of the Pharo Virtual Machine.
- Since 2019 Multiple meta-programming projects such as Visitor generation and templated Pharo code generation.
- Since 2019 Contribution to multiple open source projects, particularly related to the Pharo project.
- Since 2019 Framework to generate C code from Pharo. Including the target C AST development, a high level type inferencer in an open world setting, and the actual generator. Developed and applied in a research context.
- 2018 Master Developing an automatic solver using the resolution method for the first-order logic in Pharo Smalltalk.
- 2018 Master C++ recognition aiming for code transformation using the ANTLR tool.
- 2017 Master Conception and implementation of a virtual machine and associated meta-circular compiler for CLisp.

Experience

- Since 2019 PHD Lille
Work on testing of Simulation-Based Virtual machines. Multiple side projects on code generation and meta-programming.
- 2019 Research internship Lille
Researching on the transpilation of Pharo to C.
- 2017 French algorithmic contest "Le Shaker" Montpellier
Ranked 216/3090.
- 2012-2013 Creation and management of emailing Sète
Self taught HTML, CSS, for advertisement purpose for several companies.

Useful links

Most of my projects are publicly available at the address:

<https://github.com/hogoww>

A short video presentation of the Polyphemus project:

<https://www.youtube.com/watch?v=zf3cCtNW830>

Hobbies

- Beach volleyball;
- Fantasy literature;
- Skateboarding;
- Video games.

Diverse

- French Category 'B' driving license