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Rust Software Engineer

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[🔗 https://michaelb.github.io/cv](https://michaelb.github.io/cv)

Hi! I'm a curious tinkerer fond of high-tech, software and computer science.

Making things (on the software side) and taking other things apart (hardware) is my n°1 hobby... and on the side I'm into music, self-hosting, and occasionally sports (skiing, sailing, cycling, foosball...).

Programming Languages & Tech

(ordered by decreasing proficiency)

Rust



C



Python



Java



Bash



Lua



Go



(and other tech I'm comfortable with at a professional level, unordered)

Git



Linux



Github



Gitlab



Docker



Ansible



Phoronix



Slurm



Professional Experience

Software Engineer

Atos R&D Data Management - 2021 - now

- Study the state-of-art of data caching technology for HPC systems.
- Identify performance bottlenecks of an IO accelerator used as a transparent cache, and develop solutions to improve global throughput.
- Submit proposals & develop new features, resolve bugs, improving not only the complex application core but also integration, compatibility and documentation as a member of an Agile team
- Create from scratch a HPC application library and testing framework (based on the Phoronix Test Suite) to evaluate the team's products in 'production' conditions
- Oversee an internship intended to analyze a particular HPC application

C

HPC

IO

IT support (part-time)

IT support dept. Ensimag - 2018-2021

- Provide day-to-day support to students and help them install and manage a Linux-based work environment.
- Take initiatives to improve quality-of-life services such as documentation, installers and scripts.

Linux

IT support

Summer internship

RHEA Group (Redu, Belgium) - Jul-Aug 2019

- Complete different, independent parts of a proof-of-concept cybersecurity project (password cracking, user simulation, SCADA/PLC system) in coordination with an english-speaking, international team.
- Create reproducible VM and software setups.

Virtualization

Cybersecurity

Education

2021 - **Engineering Diploma** - Ensimag Grenoble-INP

(computer science and applied mathematics major)

2019 - **Bachelor degree** - Ensimag Grenoble-INP

Additionally, I'm a French native, fluent English speaker (full-score TOEIC), and know the tiniest bit of Spanish.

Projects

Sniprun

Sniprun is my flagship open-source project. It allows users to run snippets of code directly from the editor (Neovim). In addition to the code itself, sniprun has a CI pipeline, a 'deployment' system, automated tests, CD-managed HTML documentation, and showcases team & community work.

Rust

Lua

Neovim plugin

Compiler

A one-month long team assignment to create a compiler written in Java, used on an arbitrary object-oriented language to generate machine code and LLVM IR.

Java

DevOps

... and many others:

- shogai and shogui, a shogi library and GUI both written in Rust
- a surface reconstruction algorithm, in Python
- hash crackers (one in PyQt/Go, another in C++/OpenCL/GPU)
- a generic point clustering algorithm in Python