

# Michael Mercier | R&D Engineer, IT Infrastructure

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in mickours • 🌐 mickours • Age: 32 • Nationality: French

I am a Computer Science PhD Candidate, with a wide IT infrastructure expertise in multiple contexts:  
Cloud, High Performance Computing, and Big Data.

## Skills

### IT Infrastructure Design

Design and implementation of a bare metal distributed Cloud infrastructure and a High Performance Computer and Big Data converged infrastructure.

Infrastructure Design SDN SDS  
Provisioning OS Image generation  
Orchestration Virtualization

### Software Engineering

Development in multiple languages including system, scripting, and functional programming. Contribute to several open source communities. See my GitHub account and [Inria Gitlab](#).

Python Bash/Zsh Go Nix  
C/C++ Ruby R HTML/CSS

### DevOps

Operate Infrastructure as Code using configuration management software, common monitoring tools. Studied package managers and containers for software provisioning on HPC.

GNU/Linux Qemu/KVM Docker  
Ansible SatIStack NixOps NixOS  
Debian Archlinux RHEL ELK Stack  
Shinken Nagios Hadoop Spark

## Work Experience

**Computer Science PhD** – 3 years (in progress),  
*Bull / University Grenoble Alpes (UGA)*, Sep. 2015

HPC / Big Data Infrastructure convergence.

**IT Infrastructure R&D Engineer** – 4 months,  
*Bull*, May 2015

Development of a PaaS orchestrator for Big Data applications.

**IT Infrastructure R&D Engineer** – 2 years,  
*Stimergy / Inria*, 2013

Design and development of an IT infrastructure for distributed “Digital Boilers”, and of a monitoring and automation module on embedded Linux.

## Education

**Master in Computer Engineering (2013)**  
○ *Polytech Grenoble*

**Engineering technician (2010)**  
○ *I.U.T2 - University Grenoble Alpes*

## Personal

- **Parenting:** proud father of two sons
- **Music:** playing guitar and listening all kind
- **Sports:** basket-ball, running, hiking

## Communication

- **French:** Native
- **English:** Fluent

## Achievements

**Kameleon** is tool that generates reproducible customized OS images in any format.

**Evalys** is a resource and job scheduling performance evaluation framework.

**Batsim** is a Batch scheduler simulator with scheduler pluggable capacity.