



# Timothée Jourde

## Software engineer

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timjrd.github.io/cv twenty-four  
github.com/timjrd

Fond of computer science and autodidact, I hold a master's degree, and a technical degree in computer science. Throughout my experiences as a software developer, a student, and a strong hobbyist, I have acquired specific skills in algorithmics, functional programming, software engineering, data visualization, and web development.

## Work Experience

- April - August 2019* *C++ Python Gurobi Linear optimization Bioinformatics*  
Final year internship at LaBRI, Computational Biology team (master's degree, second year): implementation, evaluation, and enhancement of a genetic sequences analysis program, whose purpose is to identify among known strains of a bacterium, which ones are present in a biological sample and in which quantities. The genetic material of the sample being sequenced with a high-throughput method. Supervised by (2).
- June - July 2018* *Haskell AI*  
Internship at LaBRI, Formal Methods team (master's degree, first year): design and implementation of a parametric Mastermind computer player. Supervised by (3).  
[github.com/timjrd/mastermind](https://github.com/timjrd/mastermind)
- June - July 2017* *Scala Scala.js D3.js*  
Software developer position at ISPED, ERIAS team: continuation of the previous project, in partnership with LaBRI (see below).
- March - August 2016* *Java Lucene GWT Data mining Semantic Web*  
Software developer position at ISPED, ERIAS team: development of an online forums analysis system targeted at spotting medications misuses by the population, with a web visualization application. Supervised by (4).
- April - May 2015* *C++ OpenGL GLSL Scala Spark Big data*  
Internship at LaBRI, EVADoMe team (technical degree): implementation of a massive data visualization application based on parallel coordinates, with a distributed backend infrastructure. Supervised by (5). This work has provided the basis for a publication (1).

## Education

- 2017 - 2019* Computer science master's degree at University of Bordeaux, software engineering specialisation.
- 2016 - 2017* Computer science bachelor's degree at University of Bordeaux (L3).
- 2013 - 2015* Computer science technical degree (DUT) at Bordeaux University Institute of Technology (IUT).
- 2013* High school diploma, mathematics specialisation (BAC S).

## Publication

- 1 Joris SANSEN, Gaëlle RICHER, Timothée JOURDE, Frédéric LALANNE, David AUBER, Romain BOURQUI. "Visual Exploration of Large Multidimensional Data Using Parallel Coordinates on Big Data Infrastructure". *Informatics*. 12 July 2017.  
[www.mdpi.com/2227-9709/4/3/21](http://www.mdpi.com/2227-9709/4/3/21)

## Skills

- Haskell* Very interested. Several projects done. Internship experience. Good command of the base language.
- C++* Interested. Several projects. Internship experience. Good command.
- Java* Several projects. Work experience. Good command.
- Scala* Very interested. Work experience. Decent command.
- Rust* Very interested. Decent command.
- C* Several projects. Decent command.
- Python* Internship experience. Decent command.
- JavaScript* Basic command.
- GNU/Linux* Good knowledge and daily usage.
- Nix/NixOS* Very interested. Daily usage. Decent command.
- Git* Good command.
- CSS3* Interested. Several projects. Good command.
- XHTML5* Decent command.
- Free Software enthusiast. Inquisitive, in-depth computer science knowledge.

## Languages

- French* Native language.
- English* CEFR B2 (upper intermediate). Daily reading of technical articles and documentation.

## Hobbies

- Music* drums, piano, computer music, algorithmic composition
- Alpine skiing* good level
- Photography* macro, long-exposure

## References

- 2 Cedric CHAUVE. Professor in the Department of Mathematics of Simon Fraser University.  
[cedric.chauve@sfu.ca](mailto:cedric.chauve@sfu.ca)
- 3 Nathanaël FIJALKOW. CNRS researcher at LaBRI (Bordeaux Laboratory for Computer Science Research), Formal Methods team.  
[nathanael.fijalkow@labri.fr](mailto:nathanael.fijalkow@labri.fr)
- 4 Gayo DIALLO. Associate professor at ISPED, ERIAS team (Bordeaux School of Public Health ; Computer Research Applied to Health).  
[gayo.diallo@u-bordeaux.fr](mailto:gayo.diallo@u-bordeaux.fr)
- 5 Romain BOURQUI. Associate professor at LaBRI, EVADoMe team (Visual Analytics and Interactive Exploration of Massive Data).  
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