



# Timothée Jourde

## Programmer

[timjrd@pm.me](mailto:timjrd@pm.me)  
[github.com/timjrd](https://github.com/timjrd)

Paris, France  
29 y/o

Fond of everything computers 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 skills in algorithmics and data structures, programming and software engineering; but also in desktop development, data visualization, front-ends, and Linux systems.

## Work Experience

- since June 2023* **C++** *Slint* *Embedded Linux* *Full remote*  
Software engineer position at Witekio. Front-end and middleware work on a demo showcasing Welma: an in-house embedded Linux distribution. Other middleware works for end customers.  
[youtu.be/Ewj-gwSNXmc?t=36](https://youtu.be/Ewj-gwSNXmc?t=36)
- September to November 2022* **Rust** *Iced* *International* *Full remote*  
Software engineer position at Kraken. Front-end work on Cryptowatch Desktop, a cross-platform trading terminal built with Iced: an in-house open-source GUI toolkit. International English-speaking team. Laid-off as part of a large-scale reduction in force.  
[youtu.be/Ja2PDH8Py5g?t=115](https://youtu.be/Ja2PDH8Py5g?t=115)
- November 2020 to July 2022* **C++** *JUCE* *MIDI/MPE* *Windows* *macOS* *iPadOS*  
Software developer position at Joué Music Instruments, manufacturer of an electronic musical instrument. Development of a cross-platform musical application controlled by the instrument: mainly front-end work and communication with the device through MIDI.  
[youtu.be/C7f7In0NPGc](https://youtu.be/C7f7In0NPGc)
- April to August 2019* **C++** *Python* *Bioinformatics* *Academia*  
Final year internship at LaBRI, Computational Biology team (master's degree): implementation and benchmarking of a genetic sequences analysis program.  
[github.com/timjrd/mrsep/tree/master/src/mrsep.ilp](https://github.com/timjrd/mrsep/tree/master/src/mrsep.ilp)
- June to July 2018* **Haskell** *Academia*  
Internship at LaBRI, Formal Methods team (master's degree, first year): design and implementation of a computer player for the Mastermind board game.  
[github.com/timjrd/mastermind](https://github.com/timjrd/mastermind)
- June to July 2017* **Scala** *Scala.js* *Academia*  
Software developer position at ISPED, ERIAS team: continuation of the previous project, in partnership with LaBRI (see below).
- March to August 2016* **Java** *Lucene* *GWT* *Academia*  
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-based visualization application.
- April to May 2015* **C++** *OpenGL* *GLSL* *Scala* *Academia*  
Internship at LaBRI, EVADoMe team (technical degree): implementation of a massive data visualization application based on parallel coordinates, with a distributed backend infrastructure. This work has provided some basis for a scientific publication (see below).

## Education

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

## Publication

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.  
[mdpi.com/2227-9709/4/3/21](https://mdpi.com/2227-9709/4/3/21)

## Skills

- Rust** Very interested. Work experience. Good command.
- C++** Interested. Work experience. Good command.
- Haskell** Very interested. Internship experience. Good command.
- Java** Work experience. Good command.
- Scala** Very interested. Work experience. Decent command.
- C** Decent command.
- Python** Internship experience. Decent command.
- JavaScript** Basic command.
- 
- Linux** Very interested. Good general knowledge. Daily usage.
- Git** Interested. Work experience. Good command.
- Nix/NixOS** Very interested. Good command.
- CSS/HTML** Interested. Decent command.
- Bash** Good command, unfortunately.
- Emacs** Stockholm syndrome.
- 
- Free Software enthusiast, interested by business models involved in open-source. Inquisitive, in-depth computer science knowledge.

## Personal Projects

- Haskell** *Generative music* *Sound synthesis*  
Software producing a musical audio stream that is randomly generated (both melodies and timbres). Done from scratch.  
[github.com/timjrd/automagicsynth](https://github.com/timjrd/automagicsynth)
- Haskell** *Web scraping* *WebExtensions*  
Metasearch engine for online videos (CLI and Web GUI). Results are sorted by quality estimation, and duration of the videos.  
[github.com/timjrd/scrapeaming](https://github.com/timjrd/scrapeaming)
- Rust** *Simulation*  
Barnes-Hut N-body simulation mixed with a stencil code, producing an artistic video. Done from scratch.  
[github.com/timjrd/stencil-n-body.rs](https://github.com/timjrd/stencil-n-body.rs)

## Languages

- French** Native language.
- English** See position at Kraken (international English-speaking team). Daily reading of technical articles and documentation.

## Hobbies & Misc.

- Alpine skiing** Good level.
- Inline skating** Decent level. Steady training.
- Cooking** Vegetarian dishes.
- Music** Drums, percussion, piano.
- Politics** Strong supporter of the European integration.

Went to Gabon, Japan, Senegal, United States, Turkey, New Caledonia, Italy, United Kingdom, Spain, Belgium.

Driving licence (permis B).