



# Timothée Jourde

## Programmer

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github.com/timjrd 30 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, Linux systems, electronic music and digital audio.

## Work Experience

since June 2023	C++ Slint Embedded Linux Full remote Permanent
	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. <a href="https://youtu.be/Ewj-gwSNXmc?t=36">youtu.be/Ewj-gwSNXmc?t=36</a>
September to November 2022	Rust Iced International Full remote Self-employed
	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. <a href="https://youtu.be/Ja2PDH8Py5g?t=115">youtu.be/Ja2PDH8Py5g?t=115</a>
November 2020 to July 2022	C++ JUCE MIDI/MPE Windows macOS iPadOS Permanent
	Software developer position at Joué Music Instruments, manufacturer of an electronic musical instrument. Development of a cross-platform musical application controlled by the device: mainly front-end work and communication with the instrument through MIDI. <a href="https://youtu.be/C7f7In0NPGc">youtu.be/C7f7In0NPGc</a>
April to August 2019	C++ Python Bioinformatics Academia Internship
	Final year internship at LaBRI, Computational Biology team (master's degree): implementation and benchmarking of a genetic sequences analysis program. <a href="https://github.com/timjrd/mrsep/tree/master/src/mrsep.ilp">github.com/timjrd/mrsep/tree/master/src/mrsep.ilp</a>
June to July 2018	Haskell Academia Internship
	Internship at LaBRI, Formal Methods team (master's degree, first year): design and implementation of a computer player for a generalization of the Mastermind board game. <a href="https://github.com/timjrd/mastermind">github.com/timjrd/mastermind</a>
June to July 2017	Scala Scala.js Academia Contract
	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 Contract
	Software developer position at ISPED, ERIAS team: development of an online discussion forums analysis system targeted at spotting medication misuse trends, with a Web-based visualization application.
April to May 2015	C++ OpenGL GLSL Scala Academia Internship
	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.
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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. In-depth computer science knowledge. Interested by cryptography, compilers, and the Web as a full-fledged alternative to native platforms, with initiatives such as WebAssembly.

## Personal Projects

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

## Languages

French	Native language.
English	See position at Kraken Digital Asset Exchange (international English-speaking team). Daily reading of various contents in English. Je n'ai pas de TOEIC/TOEFL, mais je serai ravi d'échanger avec vous en anglais.

## Hobbies & Misc.

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

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

Driving licence (permis B).