Timothée Jourde
Software engineer

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Fond of computer science and autodidact, I hold a master's degree, and a technical degree in computer science. Throughout my experiences, 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

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

Skills

Haskell — Very interested. Several projets done. Internship experience. Good command of the base language.

C++ — Interested. Several projets. 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

3. Nathanaël FIJALKOW. CNRS researcher at LaBRI (Bordeaux Laboratory for Computer Science Research), Formal Methods team.
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

5. Romain BOURQUI. Associate professor at LaBRI, EVADoMe team (Visual Analytics and Interactive Exploration of Massive Data).
bourqui@labri.fr