



Timothée Jourde

Computer Science Master's Student

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Fond of computer science and autodidact, I'm currently intern as part of the final year of my computer science master's degree. With a first professional experience, several internships done, and specific skills in algorithmics, functional programming, software engineering, data visualization, and web development, I'm looking for a job starting on October 2019.

Work Experience

- currently* C++ Python Gurobi Linear optimization Bioinformatics
April 2019 Final year internship at LaBRI, Computational Biology team (master's degree, second year): implementation, evaluation, and enhancement of a program capable of identifying 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

- currently* Computer science master's degree at University of Bordeaux, software engineering specialisation (M2, second year).
2017 - 2018 Computer science master's degree at University of Bordeaux (M1, first year).
2016 - 2017 Computer science bachelor's degree at University of Bordeaux (L3, third year).
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 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.
C Several projects. Decent command.
Scala Very interested. Work experience. Decent command.
Python Internship experience. Decent command.
Rust Very interested. Basic 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).
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