

# Romain Tetley

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## WORK EXPERIENCE

### Research Engineer / Full-Stack Developer.

Nov. 2020 - Present

*Inria Center at Université Côte d'Azur*

Tenure since 2023

- Built the UI for the LLM leaderboard for the French language (Typescript; React) [https://huggingface.co/spaces/fr-gouv-coordination-ia/llm\\_leaderboard\\_fr#/](https://huggingface.co/spaces/fr-gouv-coordination-ia/llm_leaderboard_fr#/)
- Developed a language server and vscode extension for the Rocq Prover (Typescript; React; React Component Library; CI/CD; OCaml; Rocq; UI/UX) <https://github.com/rocq-prover/vsrocq>
- Designed and maintained the release and executable signature pipeline for the Rocq platform (CI/CD; Automation; Gitlab; Github; Bundling; Signature) <https://github.com/rocq-prover/platform>
- Built a new React frontend for a controller application designed to manage bio-reactors (Ruby on Rails; React; PostgreSQL; UI/UX)
- Developed a component library in Qt QML as well as a design system for scientific software (C++; Qt QML; UI/UX) <https://gnomon.gitlabpages.inria.fr/gnomon/legacy/>
- Modernised a serious-game for the French military intelligence service (React; PostgreSQL; Nodejs; Express; Sequelize; PHP; UI/UX)

### Music Tech Start-up maturation as CEO/CTO

Oct. 2018 - Aug. 2020

*Inria Start-up Studio*

*(React; firebase; UI/UX; live music tour)*

- Secured funding for a two man team in an early stage music tech start-up
- Co-designed, and fully implemented a web application allowing a performer to ask questions to the audience and make them participate in the performance.
- The Web application was used during a 1 year tour with a jazz band

## EDUCATION

### PhD in Computer Science

Sep. 2014 - Nov. 2018

*University of Nice Côte d'Azur*

*Title: Mixed sequence-structure based analysis of proteins, with applications to functional annotations (C++; Topology; Python; Structural Biology; Algorithmics; Graph Theory)*

- Research on learning methods to detect viral fusion proteins
- Results implemented as part of high level C++ library

### Master's Degree in Computer Science

Sep. 2011 - Aug. 2014

*ENS de Lyon, University of Nice Côte d'Azur*

*Semester abroad at the Indian Institute of Science (Bangalore, India)*

Admitted at the Ecole Polytechnique. This awarded me a scholarship to pursue a Master's degree in a joint curriculum between the ENS de Lyon and the University of Nice Côte d'Azur.

## SKILLS & INTERESTS

**Languages:** fluent in French and English (South-African/French dual citizenship)  
**Coding:** Typescript, Javascript, OCaml, C++, Ruby, Python, shell scripting  
**Frameworks:** React, Qt QML, Ruby on Rails, Nodejs, Express  
**Tooling:** git, vite, yarn, CMake, dune, makefile, opam, Jenkins, Travis CI, Github Actions  
**General CS:** Algorithmics and complexity, Graph Theory, Type theory  
**Interests:** mountain (ski touring, cycling, canyoning); Music fanatic (ranging from abstract hip-hop to stoner doom metal all the way through jazz); Multi-instrumentalist (guitar, saxophone, drums) part of two cover bands: a vocal French jazz band, and a dad rock power trio