

Sébastien BESNIER

Computer developer with maths skills

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🌐 besnier.se

I am interested in code development, especially when there's technically challenging aspects to it. For a more detailed version of my resume, see my page: <http://besnier.se/en>.

Expériences

2015– **PhD in cryptography**, *CEA-LIST*, 91120 Palaiseau (France).

My subject is about Physically Unclonable Functions: the main interest is to find a way to build cipher algorithm using the intrinsic variability of the components.

2016 **Tutor in web application conception class**, *ISTY*, Université de Versailles (France).

I've taught during practical sessions of the class "Application Web et Sécurité" ("Web application and security") in first year of Computer Science master. See the content of the class: <http://defeo.lu/aws>.

2012–2015 **Math and computer science teacher**, *Académie de Versailles* (France).

2011– **Child's summer camp direction**, *Vitacolo*.

I have been head of 5 children summer camps: staff recruitment, planning, accounting, ...

Education

2013–2014 **Master 2 «Algèbre Appliquée à la Cryptographie et au Calcul Formel»** ("Algebra applied to cryptography and formal calculation"), *Faculté de Versailles* (France).

Internship: improvement of the isogenies support in Sage.

Rank: 2/10.

2011–2012 **Agrégation externe de mathématiques**, *Computer Science option*.

The **agrégation de mathématiques** is a selective exam in mathematics allowing to teach in the french system up to about the end of the bachelor's degree (the "licence" in the European LMD system) in mathematics.

Rank! 85/ 308.

Programs

2015–2016 **Help desk for summer camp organization**, for *Vitacolo*.

(in progress) Technologies used: Python, Django, twitter-bootstrap, a bit of jquery.

2014–2015 **Multi-target compilation**.

This project aims to produce (cryptographic) code in several languages (namely C, Java and Python) which behaves exactly in the same manner. See <http://github.com/sebsheep/bbox-julia>.

2015– **Interactive proof assistant**.

The goal of this project is to illustrate to children that a mathematical proof is essentially "mechanic". See the source code <http://github.com/sebsheep/poussin> or a live demo: <http://poussin-interactif.herokuapp.com/>.

Competences

Python ★★★★★

Node.js ★★★★★

- Masters theoretical notions in Computer Sciences: complexity, finite state machine/regular expressions, pushdown automaton/grammars, graph theory.

C/C++ ★★★★★

Haskell ★★★★★

- Knowledges on database design.

Django ★★★★★

JavaScript ★★★★★

- Linux: basic knowledges in bash.

Classical music

- Guitar: since 1994
- Piano: self-learning since 2000
- Cello: since 2012
- Lyric sing: irregularly since 2004