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# Yann Esposito

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## Professional Background

2016 → **Cisco**, Software Engineer, Remote (US team)  
2013 → 2016 **Vigiglobe**, Machine Learning & Software Engineer, Sophia Antipolis, France  
2010 → **GridPocket**, Co-Founder, Sophia Antipolis, France  
2007 → 2013 **AirFrance**, Software Engineer, Sophia Antipolis, France  
2006 → 2007 Post Ph.D., Hubert Curien Laboratory, St-Etienne, France  
2004 → 2006 ATER (College Degree Teach & Research), Marseille, France  
2001 → 2004 University Monitor (College Degree Teach & Research), Marseille, France

## Education

2004 CS Ph.D. in Machine Learning at Université de Provence  
2001 DEA (Equivalent to Master in Computer science)  
2000 Maîtrise in Computer Science  
1999 Licence in Computer Science  
1998 DEUG MIAS (Math)  
1995 BAC S (Math)

## Technical Competences

Languages **Haskell, Clojure, Purescript, Javascript**  
scheme, C, camL, C++, Ruby, Perl, Java, Python, PHP  
Web frontend **Purescript, elm, Clojurescript, Reagent, Angular.js, sass**, etc...  
Miscellaneous Shell scripts (zsh, bash), awk, %latex, ConTeXt, %metapost  
Auth OAuth2, OpenId Connect

## Presentation

I am a senior Software Engineer with a Machine Learning background currently working remotely for an US team in the Security Field for Cisco. More precisely I am part of the API team of SecureX<sup>1</sup>. Previously my team delivered Cisco Threat Response<sup>2</sup>. SecureX<sup>1</sup> is a Threat Intelligence product that must integrate with a lot of external products, both in-house and 3rd parties. The API team is recognized for having delivered a high quality product with very few bugs.

I code professionally in Clojure since 2013. I use Haskell and Purescript for most of my personal projects. I started to use Haskell back in 2011. I wrote the article “Learn Haskell Fast & Hard”<sup>3</sup> which I recently updated to integrate nix<sup>4</sup>.

Here are some major delivered components for which I am the main developer in my current position:

- An advanced **OAuth2/OIDC provider**,
- a **Login/Invite** component using IdPs (OIDC and SAML),
- a library to generate **structured logs** for our infrastructure,
- a library to expose a **store abstraction** API that could use different DBs (TVar in RAM, Postgres, ElasticSearch, Redis, Riemann... ),
- an **Admin UI** and APIs to manage our API in Production,
- **documentations** both internal and public facing<sup>5</sup>,
- a **DB migration** component using high level abstractions.

Also beyond software development I am responsible of:

- Help other teams integrate with our product,
- tutor new member of the team,
- often the first technical person reached out about security concerns,
- plan technical changes about our Auth component

Previously I worked for a social media analytics startup; Vigiglobe. We managed me and another developer to pivot from `node.js` with MongoDB to Clojure with a little bit of Haskell. We created a real time social media analytics SaaS platform using Kafka, Druid, ES. I was also responsible to integrate the machine learning aspect.

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<sup>1</sup><http://cs.co/securex>

<sup>2</sup><https://www.cisco.com/c/en/us/products/security/threat-response.html>

<sup>3</sup><http://yannesposito.com/Scratch/en/blog/Haskell-the-Hard-Way/>

<sup>4</sup><https://her.esy.fun/posts/0010-Haskell-Now/index.html>

<sup>5</sup><https://visibility.amp.cisco.com/iroh/doc/iroh-auth/>