

Resume

Yann Esposito

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Resume

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Professional Background

2016 → Clojure Software Engineer for Cisco
2013 → 2016 Machine Learning Scientist & Software Engineer
Sophia Antipolis, France
2010 → Co-Founder of GridPocket,
Sophia Antipolis, France

Presentation

I am French with a Post Ph.D in Machine Learning¹.
Furthermore I love web programming and design.

I am currently working remotely for Cisco Security team as a Clojure Software Engineer.

Previously I worked for Vigiglobe. The first six months I worked with `node.js` (API/MongoDB/Web). Then we upgraded our stack to *Clojure*, *Haskell*, *Mesos*, *Kafka*, *Druid*, etc... At that time we were two to make all technical decisions. In the end we made a real time analytics of social media content on a scalable architecture. Actually our architecture is able to manage (Aggregation & Machine Learning) thousands of messages per second². In particular I've written an

Public things done

- ▶ Cisco (threatgrid) Security & Threat Management.
- ▶ Vigiglobe architecture able to analyze thousands of social media messages in realtime. In particular, real time Machine Learning & Statistics.
- ▶ YPassword iOS application
- ▶ Gridpocket web services (from conception to realization, works in correlation with a mobile app)
- ▶ DEES: a 10.000 line C++ command line program. This program implement most HMM standard algorithms & inference algorithms.
- ▶ SeDiL: a Java application using Swing UI. The

Technical Competences

Jobs

Clojure Software Engineer for Cisco 2016



► *Remote*

| | |
|---------|----------------------------|
| Product | Security Threat Management |
| Role | Clojure Software Engineer |

Machine Learning Scientist & Software Engineer for Vigiglobe 2013 → 2016

► *Sophia Antipolis, France*

| | |
|----------|--|
| Product | Scalable Real Time Social Media Analytics Sentiment Analysis Many client side web applications (Angular.js) |
| Role | Machine Learning Scientist (fast sentiment analysis, learning protocols, etc) Full stack engineer (backend to frontend architecture) |
| Keywords | Clojure, Haskell, node.js, reagent, Angular.js, |

Co-Founder & freelance for GridPocket

2010 →

Sophia Antipolis, France

| | |
|----------|---|
| Product | Two API server (one for client, another for ad) A private client side web application An iPhone Application Some Linux boxes to send data to the servers A Linux driver |
| Role | Full technical responsibilities |
| Keywords | Ruby, REST, JSON, HTML, CSS, Javascript, jQuery, Objective-C, ASIHTTPRequest, CoreF |

Consultant, AirFrance 2007 →

Sophia Antipolis, France

| | |
|----------|--|
| Role | In charge of the Airfrance CMS for their website |
| Keywords | TeamSite, Perl, XML, XHTML, CSS, javascript, PHP Unix (Solaris/Linux), Bazaar |

Post Ph.D 10/2006 → 3/2007

*Université Jean Monet, Laboratoire Hubert Curien,
Saint-Etienne*

| | |
|----------|--|
| Product | SeDiL |
| Role | Java Developer |
| Research | Similarity measure between strings or XML tr |
| Contact | Marc Sebban |
| Keywords | UML, Java 1.5, Swing, Java 2D, Java Web S subversion, XML, XHTML, PHP |

Details:

*Java application: 11 000 lines with
javadoc*

Main functionalities

ATER 10/2004 → 9/2006

Research & Teacher, Université de Provence,
Marseille

teach 1/2, research 1/6, C++ development 1/3

DEES ; a C++ software

7500 lines of C++ code, 10.000 with
comments

Main functionalities:

- ▶ *Multiplicity Automata, HMM & PDA Inference,*
- ▶ *Baum Welch & Viterbi Algorithms,*
- ▶ *GraphViz export,*
- ▶ *String Generation from many Models,*

Moniteur des Universités 10/2001 → 9/2004

Université de Provence, Marseille

teach 1/3, research 1/3, C++ Development 1/3

Creation of DEES (see preceeding entry).

Diploma

Scientific Publications

International

| | |
|-------------|---|
| Journals | [Fundamenta Informaticæ vol.86 2008] [Pat |
| Conferences | [ECML 2008] [COLT 2006] [ICGI 2006] [CO |
| Workshop | [TAGI05] |

National (French)

| | |
|-------------|----------------------------------|
| Journals | [JEDAI, 2003] |
| Conferences | [CAP 2006] [CAP 2004] [CAP 2003] |
| Thesis | [Université de Provence 2004] |

Projects

Haskell libraries

- ▶ [Link to list of packages](#)
- ▶ `holy-project`
- ▶ `human-readable-duration`
- ▶ `wai-middleware-caching-lru`
- ▶ `wai-middleware-caching-redis`
- ▶ `wai-middleware-caching`

YPassword 2008 →

Mainly an iOS application:

- ▶ YPassword,
`http://ypassword.espozito.com`

I've done fully the website from scratch. Also there are some javascript implementation of YPassword method:

- ▶ a Mac OS X dashboard widget,

YPassword 2008 →

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- ▶ a jQuery Web application,

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- ▶ a jQuery Web application,
- ▶ a command line tool,

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- ▶ a Cappuccino Web application,
- ▶ a jQuery Web application,
- ▶ a command line tool,
- ▶ an Applescript helper

Anonymous Network Project 02/2006 → 06/2006

Made a protocol similar to TOR for student.

Other projects

- ▶ Web Application used for private team usage at AirFrance *2008* → This application is just done *for teh lulz*. Not related to the Airfrance work. But still pleasant. *Javascript(Prototype.js, Scriptaculous), CSS, PHP/MySQL, Google Talk*
- ▶ metapost package to draw Automata *2003* → *2004* metapost
- ▶ Mac OS X Screensavers (YClock & YAquaBubbles) *2003* → *2004*
Objective-C, Quartz Composer, Cocoa

You could find even more information by looking at:

- ▶ My personal website: