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|=====CV=====|
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|=====Filippo Valsorda=====|
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|=====[Data

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|=====[Skills

* **Cryptography**

Strong background in applied and theoretical cryptography, including attack techniques and implementations.

* **Systems and protocol design and review**

Ability to build and analyze complex systems and threat models, providing advice over specification, implementation and risk.

* **Passionate generalist programmer**

* **Pentesting and code review**

|=====[Experience

- [Upcoming] Phrack Linenoise paper
I'm the author of one of the Linenoise papers that will be published on the next Phrack issue, covering PGP key IDs spoofing and bruteforcing.
- [2012 - now] youtube-dl core developer
I'm currently one of the core developer of youtube-dl, a popular Open Source command-line tool used to download videos from >130 websites.
<https://github.com/rg3/youtube-dl/>
- [2014] Keybase
Developed a Python implementation of TripleSec and some ciphers bindings for the upcoming launch of Keybase.io.
<https://github.com/keybase/python-triplesec>
- [2013] Hacker School
The youngest student admitted to the Fall 2013 batch of Hacker School in NYC, a three-month, immersive school for self-directed programmers.
<https://www.hackerschool.com/>
- [2013] Matasano Crypto Challenges
I've been one of the first ten finisher of the original challenges, that cover a wide range of cryptographic attacks and implementation vulnerabilities. Then, I was the first to complete the 7th set, that required reproducing recent research, like the RC4 biases attack.
<http://www.matasano.com/articles/crypto-challenges/>

- [2013] Secure Network s.r.l.
Worked with Secure Network, a leading Italian security company, with engagements as ObjC code reviewer for a primary bank in the UK.
- [2013] Facebook Bug Bounty Program
I've been the recipient of a bug bounty for the discovery of a mis-authorization issue in Facebook private mobile API.
<http://filippo.io/a-bug-worth-4200%24/>
<https://www.facebook.com/whitehat/thanks/>
- [2013] Coinbase Bug Bounty Program
I've been rewarded for the detection of an information leak in the payment process.
<https://coinbase.com/whitehat>
- [2013] OnCam
I've developed server-side infrastructure and software based on Libav for the launching video-conferencing app OnCam.
- [2013] RECAP - Aaron Swartz grants
I've been awarded a grant for extending the client and server side code of the RECAP browser extension to support U.S. Courts of Appeals.
<https://www.recapthelaw.org/2013/04/02/two-recap-grants-awarded-in-memory-of-aaron-swartz/>
- [2007 - 2012] Wikipedia
Contributed as both tools and bot (automated editing programs) programmer. In 2012 managed the technical aspects of the Italian Wikipedia protest against the Stop Online Piracy Act (SOPA) and the PROTECT IP Act (PIPA).
- [2010] Technoplaza
I've been one of the core developers of the Technoplaza website, a platform to distribute news authoring and translation among staff via multiple chat systems.
- Other Open Source contributions include: the ArchiveTeam, axel, bitaddress.org, vanitygen, homebrew and DuckDuckGo Zero-Click plugins.

|===== [**Ongoing projects**

- Book: the enciphered notes of the Italian partisan Antonio Marzi
- Research: fast MD5 hash collision generation
- Project: forever archive a copy of all my browsing history
- Project: Coinfix - Bitcoin address misspellings bruteforce (in Go)

|===== [**Programming languages**

I have more than seven years of in-depth experience in most of them.

* ##### Python	* ### Go
* ##### C/C++	* ## Java
* ##### Objective-C	* ##### {Java Coffee}script
* ### Bash	* ##### PHP/HTML/CSS
* ## Assembly	* ##### SQL

|===== **Education**

- * Scientific High School degree in 2013 - 100/100;
- * full 100% (with distinction) on Dan Boneh's course "Cryptography I" on Coursera;
- * CAE certification - B level - 79/100.

|===== **Other**

I participated to the World Math Games Championship in 2009 as part of the Italian team; won a Bronze medal at the Italian Mathematical Olympiad in 2013. Scuba diver and motorbiker.

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