

# Adriano Di Luzio

## *Curriculum Vitæ*

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### Education

- 2016–now **PhD in Computer Science**, Sapienza University of Rome, Italy.  
Subject Distributed Systems: Privacy & Security
- 2014–2016 **Master degree in Computer Science**, Summa cum Laude, Sapienza University of Rome, Italy.  
Curriculum Network & Security  
GPA 30/30  
Thesis title The Ripple Exchange System: An In-Depth Analysis and Payment Privacy  
Supervisor Prof. Alessandro Mei (Sapienza University of Rome)  
Co-Supervisor Prof. Julinda Stefa (Sapienza University of Rome)
- 2011–2014 **Undergrad Laurea degree in Computer Science**, Summa cum Laude, Sapienza University of Rome, Italy.  
GPA 29.3/30  
Thesis title I Know Who Was in That Meeting: Geographical *De-anonymization* of Crowds through Smartphone Probes  
Supervisor Prof. Alessandro Mei (Sapienza University of Rome)
- 2007–2011 **Math and Science High School Diploma**, *Liceo Scientifico G. Marconi*, Colferro, Italy, Degree Grade: 100/100.

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### Other experiences

- 2014–2016 **Software Engineer**, *Unbit s.a.s.*, Rome/Turin, Italy.

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### Awards

- May 2017 **Sapienza University of Rome**, *Excellent Graduate Award*.
- September 2016 **Sapienza University of Rome**, *3 years PhD research scholarship*.
- April 2016 **IEEE INFOCOM 2016**, *Best in-session Presentation Award*, technical session: privacy.
- April 2016 **IEEE INFOCOM 2016**, *IEEE ComSoc Student Travel Grant*.
- September 2016 **Distributed Systems Summer School, Lisbon**, *Travel Grant*.
- June 2016 **#Twitter4Uni National Finals**, *Travel Grant*.
- June 2015 **Big Data Class, Student Contest**, *First place*.
- November 2013 **ACM SenSys 2013**, *Student Grant to attend the conference*.

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## Skills

- Algorithmic Data structures (*graphs, trees, etc.*), sorting, networks and flows, distributed systems (*consensus, two phase commit, etc.*), meta-algorithms (*divide et impera, greedy, backtracking, dynamic programming, etc.*), artificial intelligence, machine learning.
- Systems & Networks Distributed systems, principles of cloud computing, concurrent systems, cryptography, networks, systems and applications security, Internet's protocols and layers, GSM and wireless systems, relational and non relational databases, operating systems programming, mobile programming, Internet of Things and embedded devices programming, web and social information extraction, data mining, big data and data analysis.
- Software Design Software engineering principles, computational and complexity theory, languages theory, architectural and design patterns, functional and parallel programming, UML standard and entity-relationship diagrams, relational algebra, human-machine interaction.
- Mathematical Algebra and group theory, cryptography, mathematical analysis, probability theory, propositional and first-order logic, deep knowledge and understandings of scientific method.

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## Foreign languages

English (*fluent*), Italian (*first language*), French (*basic*).






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## Coding and programming languages

- Programming languages Python, C, Java, Go, Swift, Objective C, C++, Lua, Javascript, Common Lisp, Perl, PHP, Bash, SQL, SML, Assembly.
- Operating Systems Unix/Linux, macOS, Microsoft Windows, Android, iOS, embedded boards.

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## Selected Academic Projects

- Summer 2016 **ConSQL**, *Artificial Intelligence Class*.  
Leverage the power of your preferred SQL DBMS to define and solve any combinatorial problem.
- Summer 2015 **United Tweet Analyzer**, *Machine Learning & Web and Social Classes*.  
Let your laptop, your smartphone or your toaster detect the country of any Twitter user, based on the way she *tweets*.  
 [AldurD392/UnitedTweetAnalyzer](#)
- Spring 2015 **Subgraph Explorer**, *Big Data Class — Contest Winner*.  
An innovative approach to solve the *NP-Hard* problem of finding the smallest dense-enough subgraph of a given graph.  
 [AldurD392/SubgraphExplorer](#)
- Winter 2015 **IfThisTinyDo**, *Wireless Systems Class*.  
Build a whole network of *smart things* and let them work for you.  
 [AldurD392/IfThisTinyDo](#)
- Spring 2014 **SMLinSML**, *Programming Languages Class*.  
Have you ever tried writing a programming language by using that very same programming language?  
 [AldurD392/SMLinSML](#)
- Winter 2014 **tinyDB**, *System Programming Class*.  
A tiny, lightning-fast, Dropbox clone: For unlimited versatility.  
 [AldurD392/TinyDB](#)

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## Other Opensource Projects

- 🐙 [unbit/uwsgi](#) **uWSGI**, *an application server container.*  
Bug fixing and test driven improvements of *spooler* and *decorators* functions.
- 🐙 [Homebrew](#) **Homebrew**, *The missing package manager for macOS.*  
Fixing of the *gnupg2* formula.
- 🐙 [Hammerspoon](#) **Hammerspoon**, *powerful macOS automation.*  
Modules and helpers development.
- 🐙 [unbit/sftpclone](#) **sftpclone**, *a tool for cloning/syncing a local directory tree with an SFTP server.*  
Test-driven development and project maintenance.
- 🐙 [aldur/uwsgi-slack](#) **uwsgi-slack**, *a uWSGI plugin for the integration with the Slack service.*  
Plugin development and project maintenance.
- 🐙 [feross/SpoofMAC](#) **SpoofMAC**, *interface MAC address spoofer.*  
Added compatibility with macOS Yosemite and newer.
- 🐙 [unbit/davvy](#) **davvy**, *a Django application for building WebDAV services.*  
Existing application fixes, new features development and project maintenance.

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## Conferences & Events

- June 2017 **Author & Speaker @ IEEE ICDCS 2017**, Atlanta, Georgia.
- April 2016 **Author & Speaker @ IEEE INFOCOM 2016**, San Francisco, California.
- April 2015 **Speaker @ PyconSEI**, Florence, Italy.