

# Francesco Pira

*DevOps Engineer and curious mind, interested in infosec and business. Co-founder of a grant-winning web-services startup, with experience in students' associations. My aim is to improve people's lives.*



## Contacts and info

**born:** Jan 21, 1993

**email:** [me@fpira.com](mailto:me@fpira.com)

**telegram:** [t.me/francescopira](https://t.me/francescopira)

**Location:** Catania, Italy.

Available to move.

**website:** [fpira.com](http://fpira.com)

**GitHub:** [github.com/pirafrank](https://github.com/pirafrank)

**LinkedIn:** [in/fpira](https://in.linkedin.com/in/fpira)

**SlideShare:** [slideshare.net/pirafrank](https://slideshare.net/pirafrank)

**twitter:** [@pirafrank](https://twitter.com/pirafrank)

## Skills

**Cloud-native:** Kubernetes (including AKS and OKD), Apache Kafka and Strimzi

**Front-end dev:** Vue.js, CSS, SCSS. Some experience in Angular

**Back-end dev:** node.js, SpringBoot, Java EE, Flask. In the past: Ruby on Rails

**J2EE Application servers:** Oracle WebLogic, IBM WebSphere, Tomcat

**Databases:** MongoDB, PostgreSQL, Oracle DB 9 and 12c, SQLite, CouchDB, MySQL/MariaDB

**System Administration:** Bash scripting, nginx configuration, server deployment, configuration and hardening (sshd hardening, iptables, firewall, OpenVPN, etc.)

**Programming languages:** Java 6+, Java EE 7+, JavaScript (ES5+), TypeScript, Python, C

**VCS:** Git (including platforms for Agile project management like Azure DevOps and GitHub), SVN

**Operating systems:** Debian Linux-based, CentOS 6+, macOS 10.6+, Windows XP+, iOS, Android

**SOA products:** Oracle Fusion Middleware 12c, Oracle Service Bus 12c, Oracle WebLogic

**Cloud platforms:** AWS, Microsoft Azure, Hetzner, Linode, Aruba Cloud, Scaleway

**Other tools:** XSLT, XQuery, Let's Encrypt, GrSecurity, Webpack, Babel

**Static-site generators and CMS:** Jekyll. In the past: Wordpress and Prestashop

**Other technical skills:** Fundamentals of computer security and cryptography

**Graphical tools:** Photoshop (mostly for front-end assets), Sketch by Bohemian Coding, paint.net

**Soft Skills:** Problem Solving, Team Working, Project Management and Tracking, Team

Leadership, Social Networking, Event Organisation

## Experience

*Feb 2017 - Present  
Catania, Italy*

### **DevOps Engineer at Leonardo S.p.A.**

- Agile design and development of cloud-native and hybrid cloud solutions in team
- Setup of dev and test environments.
- Back-end development with node.js, SpringBoot and Flask.
- Front-end development in VueJS.
- Experience in Java EE 6+ applications and middlewares
- Development of enterprise applications on Oracle Service Bus 12c deployed on Solaris OS or Windows Server environments.
- Also part of the R&D team

- June 2015 - June 2017* **CEO & Developer at Fileshute srls** ([fileshute.com](http://fileshute.com)), a startup that won the TIM#WCAP acceleration program and 25K Euro grant in 2015.  
*Catania, Italy*
- Developer of a desktop app for a third-part by using node.js 6.x, Electron and AngularJS
- Feb 2015 - July 2016* **Coordinator of EESTEC IT Team**, 2 consecutive mandates  
*Remote working*
- Managed a team of 12 (of which 8 active daily) about server, websites and mailing list maintenance and development of new features of main web app
  - Delivered an overall infrastructure uptime of >98%
  - Wrote server and infrastructure documentation
- Jul 2014 - Jan 2015* **Sys Admin at EESTEC IT Team**  
*Remote working*
- Responsible for server migration (Set 2014, two weeks)
  - Sys admin (server maintenance)
- Dec 2013 - May 2015* **Web Developer, self-employed**  
*Catania, Italy*
- Worked in a team of 3, developed landing pages, static and e-commerce websites and a Rails app for a main company deployed on Amazon Web Services (using EC2, RDS, S3 and KMS).
- Oct 2010 - Nov 2013* **Computer hardware technician**  
*Catania, Italy*

## Education

- 2019 - present* **University of Catania**, BSc in Computer Engineering - Catania, Italy  
*2011 - 2016*
- *Relevant courses:* Internet Security, Mathematics, Object-Oriented Programming, Computer Networks, System Automation and Electronics, PIC programming
- 2006 - 2011* **Principe Umberto di Savoia High School**, ICT Course - Catania, Italy
- *Grade:* 100/100
  - *Relevant fields of study:* Mathematics and Physics

## Noteworthy projects

Below projects I've developed on my own.

- April 2015* **GrSecurity challenge**  
*University of Catania*
- Hardening a Debian 6.0 machine using GrSecurity open-source tool
- March 2015* **fpira.com**
- Designed and developed from the ground up using Jekyll

For a full list of project I developed, please check out [fpira.com/projects](http://fpira.com/projects).

## Noteworthy events

- November 5-9, 2016* **WebSummit 2016**, participant  
*Lisbon*
- Winner as open source contributor via GitHub code analysis
- October 14-16, 2016* **Startup Weekend Catania 2016**, co-organiser and fund-raising.  
*Vecchia Dogana, Catania*
- Startup Weekend is a format aimed at promoting young entrepreneurship and boosting cooperations in the ecosystem

- October 2016*  
*University of Catania*      **Contamination Lab (CLab) 2016 Edition**, Trainer  
3 lessons on idea setup and core startup topics
- June 13, 2016*  
*University of Catania*      **Hardening Two**, Speaker and co-organiser  
OpenDay about understanding Linux hardening. SELinux, GrSecurity, Tomoyo 1.8 and AppArmor were demoed to defend against privilege escalation, backdoor and shellshock.
- May 19, 2016*  
*University of Catania*      **Google I/O Extended 2016 Catania**, Speaker  
Workshop about JavaScript, ES2015 and node.js
- May 19, 2015*  
*University of Catania*      **Hardening One**, Speaker and co-organiser  
OpenDay about security of GNU/Linux-based desktop OSes and today's edge hardening techniques.

For a full list of events I have organised and contribute to, please go to [fpira.com/events](http://fpira.com/events).  
For a full list of talks I have given, please go to [fpira.com/talks](http://fpira.com/talks).

## Languages

- Italian, native proficiency
- English, rated CEFR Advanced (C1), not certified yet.

## Organisations and Volunteer

I've been part of the following organisations:

- EESTEC, European students' non-profit organisation ([eestec.net](http://eestec.net))
- Youthub, student incubator and startup community of Sicily ([youthub.net](http://youthub.net))
- Google Developers Group Catania (<https://developers.google.com/groups>), community of web developers passionate about Google's technology and part of the GDG worldwide initiative.

*Feb 2016 - Feb 2017*      **VP and Treasurer at Youthub Student Incubator**, Catania, Italy

*Nov 2014 - Nov 2015*      **Contact Person EESTEC Catania**, Catania, Italy

- Manager of internal and external relations
- Members motivator and promoter of the local committee

*Sept 2014 - Feb 2016*      **Board Assistant at Youthub Student Incubator**, Catania, Italy

*Oct 2013 - Sept 2014*      **Project Manager at EESTEC Catania**, non-profit organisation, Catania, Italy ([eestec-catania.eu](http://eestec-catania.eu))

- Organiser of tech events and manager of local partnerships

## Honours and Certificates

You can read a digital copy of them at [fpira.com/certificates](http://fpira.com/certificates).

## Interests

Besides programming and security, I like meeting new people, jiu jitsu and Japanese culture, traveling, DIY, thriller books and movies.

In compliance with the Italian Legislative Decree no. 196 dated 30/06/2003, I hereby authorise the recipient of this document to use and process my personal details for the purpose of recruiting and

selecting staff and I confirm to be informed of my rights in accordance to art. 7 of the above mentioned decree.