

# Sangiorgi Alessandro

<https://linkedin.com/in/alessandro-sangiorgi-9321a7108>  
[mail@alessandrosangiorgi.net](mailto:mail@alessandrosangiorgi.net)

## LINKS

<https://github.com/fulvius31>  
<https://www.linkedin.com/in/alessandro-sangiorgi-9321a7108>

## LANGUAGES

Italian - Native Language  
 English - Fluent

## PROGRAMMING SKILLS

Very Proficient:

- Java
- Android SDK
- Android NDK

Proficient:

- C
- Shell (Bash, Sh, Zsh)
- GNU/Linux
- Html
- Css
- MySql
- Docker
- Python

Familiar:

- OKD/OpenShift
- Kubernetes
- C#
- LaTeX
- Yaml
- PHP
- XML
- C++
- Javascript

## EDUCATION

### SAINT LOUIS UNIVERSITY

PHD STUDENT IN COMPUTER SCIENCE  
 Jan 2023 - 2027 | Saint Louis, USA, MO

### UNIVERSITY ECAMPUS

MASTER'S DEGREE IN COMPUTER ENGINEERING  
 Mar 2021 | Catania, Italy, Sicily, CT  
 (100/110)

### UNIVERSITY OF CATANIA

BACHELOR'S DEGREE IN COMPUTER ENGINEERING  
 Jul 2016 | Catania, Italy, Sicily, CT

### MASTER'S DEGREE THESIS

Internet of Everything : benefits and security issues

### BACHELOR'S DEGREE THESIS

Security flaws in 802.11 protocol : WIFI WPS WPA TESTER Android App

## EXPERIENCE

### SAINT LOUIS UNIVERSITY | GRADUATE RESEARCH ASSISTANT IN COMPUTER SCIENCE DEPARTMENT

Jan 2023 – Now | Saint Louis, MO - United States of America

- Working on eBPF/XDP and linux Kernel
- Contributes to scientific research and software development efforts for projects in network management and cybersecurity, in accordance with university policies, goals, and objectives;
- Working on cybersecurity and network;

### SANGIORGI SRL | CEO, FOUNDER & FULL STACK DEVELOPER

Sep 2017 – Oct 2023 | Militello in val di Catania, CT - Italy

- I made the company reach the goal of being the first italian company based on number of Downloads on Google PlayStore with more than 120MLN Downloads worldwide. Link :42matters top italian mobile app developers based on downloads;
- Tech Lead on Android development and IT Consultancy;
- Design and administration of the IT infrastructures and team's development flows based on Continuous integration/Delivery;
- Software engineering;
- Developer : C, Android NDK, Android SDK, Java, Bash;
- Reference person to do Troubleshooting with customers;
- Developed products known worldwide like WIFI WPS WPA TESTER, WeeNet, Wpa Calculator;
- Manager of the app monetisations using Admob, Facebook Audience Network and other Ad Network partners

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- Javascript

## SAINT LOUIS UNIVERSITY | RESEARCH ASSISTANT IN COMPUTER SCIENCE DEPARTMENT

Jul 2018 – Mar 2019 | Saint Louis, MO - United States of America

- Contributes to scientific research and software development efforts for projects in cloud computing and network management, in accordance with university policies, goals, and objectives;
- Investigates and develops technical solutions to meet the research objectives;
- Assigns, monitors, and reviews component-level feature development, testing and integration tasks performed by team members;
- Assists in technical report writing.

## FRATELLI VALENZIANI | IT CONSULTANT

Mar 2021 – Sep 2021 | Carlentini, SR - Italy

- Network design & security consulting;
- Troubleshoot via phone service with the client about issues on network & Linux OS machines.

## MADFARM | WEB DEVELOPER

May 2016 – Jun 2016 | Scordia, CT - Italy

- Software engineering;
- Team Working;
- Front-end developer : HTML5, CSS, AngularJS;
- Back-end developer: PHP, Ruby on Rails;

## MAIN PERSONAL PROJECTS

### [OPEN SOURCE] IP NEIGH FOR ANDROID | OWNER & FULL STACK DEVELOPER

This application is developed utilizing both Android SDK and NDK frameworks. Its primary function is to provide an alternative solution to a known issue in Android apps targeting SDK 30, which **restricts the use of iproute2's netlink bind functionality to retrieve the ARP table**. The source code for this app is publicly accessible on GitHub. Link: [Github link](#)

### WIFI WPS WPA TESTER | OWNER & FULL STACK DEVELOPER

App developed with Android SDK/NDK. It has with more than **160MLN downloads Worldwide**. App has the goal to show to the user the Security flaws of user own AP and can test the WPS PIN protocol thru PIN calculation (based on AP MAC and/or AP Serial Number) thanks to the reverse engineering of firmwares in the Access Points. Link: <https://play.google.com/store/apps/details?id=com.testers.wpswpatester> I also developed an C# version with DotNet to make it compatible with Windows OS. Link: <https://www.microsoft.com/en-us/p/wps-wpa-tester/9nncn4q66sq>

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- XML
- C++
- Javascript

## WEENET - NETWORK UTILITY SUITE | OWNER & FULL STACK DEVELOPER

App developed with Android SDK/NDK. It has more than 5MLN downloads Worldwide. App is a network analyzer and users can perform : Intrusion detection, SpeedTest, Ping, Traceroute, Port Scan, Security flaws Analysis... App is used from the first tech youtuber in Italy, Andrea Galeazzi, in all his smartphones reviews. Link: <https://play.google.com/store/apps/details?id=com.sangiorgisrl.wifimanagertool>

## WPA CALCULATOR | OWNER & FULL STACK DEVELOPER

App developed with Android SDK/NDK. It has more than 5MLN downloads Worldwide. App helps users to understand if their WPA password is safe or it could be cracked by several algorithms. Link: <https://play.google.com/store/apps/details?id=com.sangiorgisrl.wpacal>

## PUBLICATIONS

### DEMO: PROPELLING HAPTIC DEVICES INTO THE MOBILE WORLD TO ADVANCE K-12 STEM LEARNING A. SANGIORGI, F. ESPOSITO, G. SCHEMBRA, J. GORLEWICZ

MobiHoc 2019, Catania

I am the first author of this Demo. I developed the Android app and the SDN network. More info : <https://dl.acm.org/doi/10.1145/3323679.3326620>

## CERTIFICATIONS

2016 Angular.JS certificate | Student at DIEEI (University of Catania) course