Sangiorgi Alessandro

https://linkedin.com/in/alessandro-sangiorgi-9321a7108

mail@alessandrosangiorgi.net

LINKS

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

LANGUAGES

Italian – Native Language
English – Fluent
Spanish – Basic

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

EXPERIENCE

RED HAT | Software Engineer
Jan 2025 – Present | Remote, USA

Developing and optimizing machine learning solutions by contributing to open-source projects, including Triton (an OpenAI project) and PyTorch (a Meta framework).Enhancing performance, functionality, and community collaboration with Red Hat. Developed Triton Cache Manager, a tool that index, prune and warm the Triton Cache.

RED HAT | Software Engineer Intern
May 2024 – Nov 2024 | Remote, USA
- Worked with the Emerging Technology organization in the computational infrastructure team;
- Optimized the Red Hat certification process using RH tools like bootable container;

SANGIORGI SRL | CEO, Founder & Full Stack Developer
Sep 2017 – Present | Militello in Val di Catania, CT - Italy

- Led the company to become the second Italian company by number of downloads on Google PlayStore (over 120MLN downloads). See 42matters;
- Tech Lead on Android development and IT consultancy;
- Designed and administered IT infrastructures and CI/CD flows;
- Developed software in C, Android NDK/SDK, Java, and Bash;
- Acted as the reference person for customer troubleshooting;
- Developed globally recognized products such as WIFI WPS WPA TESTER, WeeNet, and Wpa Calculator;
- Managed app monetization using Admob, Facebook Audience Network, and other ad networks.

SAINT LOUIS UNIVERSITY | Graduate Research Assistant in Computer Science Department
Jan 2023 – Aug 2024 | Saint Louis, MO - USA

- Working on eBPF/XDP and the Linux Kernel;
- Contributed to research and software development efforts for network management and cybersecurity projects;
- Worked on cybersecurity and network solutions.

SAINT LOUIS UNIVERSITY | Research Assistant in Computer Science Department
Jul 2018 – Mar 2019 | Saint Louis, MO - USA

- Contributed to research and software development for cloud computing and network management projects;
- Investigated and developed technical solutions to meet research objectives;
- Monitored and reviewed component-level feature development and integration tasks;
- Assisted in technical report writing.

FRATELLI VALENZIANI | IT Consultant
Mar 2021 – Sep 2021 | Carlentini, SR - Italy
- Provided network design and security consulting;

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• LaTeX
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• PHP
• XML
• C++
• JavaScript

MADFARM | Web Developer

May 2016 – Jun 2016 | Scordia, CT - Italy

- Engaged in software engineering and team collaboration;
- Front-end development: HTML5, CSS, AngularJS;
- Back-end development: PHP, Ruby on Rails.

MAIN PERSONAL PROJECTS

[OPEN SOURCE] IP NEIGH FOR ANDROID | Owner & Full Stack Developer

This application uses both Android SDK and NDK to provide an alternative solution to a known issue on Android SDK 30 (restricting iproute2's netlink bind functionality for ARP table retrieval). Its source code is available on GitHub.Link: Github link

WIFI WPS WPA TESTER | Owner & Full Stack Developer

App developed with Android SDK/NDK with more than **160MLN downloads worldwide**. It tests security flaws in user APs and calculates WPS PINs (using AP MAC and/or serial number).Link: Google Play Store
I also developed a C# version using DotNet for Windows OS.Link: Microsoft Store

[OPEN SOURCE] ONESHOT | Developer Contributor

OneShot is a Python program that performs the Pixie Dust attack without needing to switch to monitor mode. Its source code is available on GitHub.Link: Github link

WEENET - NETWORK UTILITY SUITE | Owner & Full Stack Developer

App developed with Android SDK/NDK with over 5MLN downloads worldwide. It is a network analyzer enabling features such as intrusion detection, speed test, ping, traceroute, port scan, and security analysis. Used by notable tech influencers in Italy.Link: Google Play Store

WPA CALCULATOR | Owner & Full Stack Developer

App developed with Android SDK/NDK with over 5MLN downloads worldwide. It helps users assess the strength of their WPA passwords.Link: Google Play Store

EDUCATION

SAINT LOUIS UNIVERSITY

Master's degree in Computer Science
Jan 2023 - Dec 2024 | Saint Louis, USA, MO (GPA 3.93/4.00)

UNIVERSITY OF CATANIA AND ECAMPUS

Bachelor's & Master's degrees in Computer Engineering
Mar 2021 | Catania, Italy, Sicily, CT (100/110)

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• Kubernetes
• C#
• LaTeX
• YAML
• PHP
• XML
• C++
• JavaScript

PUBLICATIONS

MITIGATING DE-AUTHENTICATION DOS ATTACKS IN 802.11 VIA EBPF AND XDP A. Sangiorgi, F. Esposito, A. Pinto, R. Tourani
NetSoft 2025, Budapest, Hungary
I am the first author of this paper. I edited the mac80211 module in order to use eBPF and XDP on the 802.11 protocolMore info: NetSoft 2025 website

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: ACM DL

CERTIFICATIONS

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