STEFANIA **AVALLONE**

DEVOPS, SOFTWARE DEVELOPMENT

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ABOUT ME

DevOps and Software Engineer with Agile background. 4 years experience in design and development of algorithms, DevOps processes, network distributed applications and web interfaces.
Passionate about games and machine learning.

TECHNICAL SKILLS

Software Engineering

DEVOPS

DevOps & Agile

Algorithms

FRAMEWORKS & SOFTWARE

- **Preferred languages**: *Java, Python, Go*
- **Additional languages**: *JS, PHP, C, C++, MATLAB*
- **GNU/Linux, and tools** *(valgrind, check, make...)*
- **Database design** *(relational and documental)*
- **DevOps**: *Docker, Kubernetes, Jenkins, GitHub Actions, GitLab Pipelines, JFrog, Jira*
- **Software frameworks**: *Spring Boot, Robot, Bob*
- **Web&Mobile**: *JQuery, Kivy, Angular, CMSs*
- **Casual and occasional**: *reversing, electronics, embedded*

WORK EXPERIENCE

DevOps Engineer
Capgemini for Ericsson | **1 year** (*Jan 2021 - now*)

Development of several microservices in Golang, Java and Python to generate 5G utilization licenses. Test suite automation of microservices with Robot Framework; load test performed with JMeter. Integration of Prometheus monitoring tool for metrics analysis.

Major contribution I proposed and developed:
- I reduced the **memory footprint** of several microservices through optimal parameter search.
- I redesigned the **CI/CD pipelines** to make the workflow asynchronous and improve the process time by about 70 minutes.
- I designed and realized a **generic certificate checker** to avoid redeploy/restart of some microservices.

Software Development Engineer
Relatech for NTT DATA | **2.5 years** (*May 2018 - Dec 2020*)

Feature development in Java, PHP and CMS Drupal. Customer support for requirements analysis, suggesting excellent solutions for the required functionalities. Estimation of the various activities and team coordination.

Major contribution I proposed and developed:
- I **redesigned several SQL queries** to improve the search time up to 30%.
- I **refactored some REST API** to filter errors faster and reduce analysis time.

EDUCATION

Bachelor's Degree - Computer Science
Università degli Studi di Salerno | *Feb 2018*

Technical leader on many group works: design of embedded system to detect fire; webapp design. Development of several other projects: bicicle selling portal, interview questions generator system.
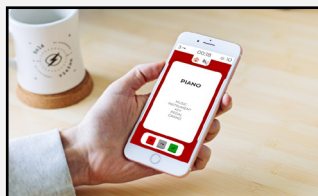**Thesis**: Sepsi detection system through CoreNLP

High School - Computer Science
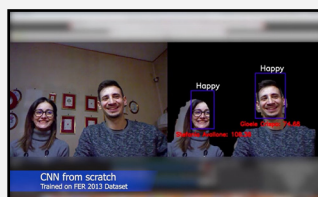*Istituto tecnico Basilio Focaccia* | *Jun 2011*

PROJECTS (non-work related)

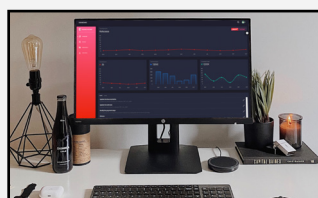find more on stefaniavallone.github.io

Kaboo - Word Game
*Android Game App built with Kivy framework, written in Python and published on **Play Store**. It is a word game based on well-known Taboo. A CI/CD Github Action has been developed to improve update and release processes.*

Emotions and Faces recognition
System to recognize emotions and faces from a Kinect or generic camera. A CNN was built and trained on the FER 2013 dataset from scratch. A hyperparameters optimization phase allowed to improve the accuracy by 4%.

Dashboard for Project releases
Dashboard written in Angular and Typescript. It tracks the releases of a NTT DATA project and manages the various development phases (analysis, design, releases, bureaucracy). It interfaces with a REST server written in Spring.