








# 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 & 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

### Software & DevOps Engineer

TIM | 1 year (Apr 2022 - now)

Development of microservices in Java and Python; Front-end in ReactJs, VueJs and CMS Adobe. Team leader for business management and e-commerce projects.

Major contribution I proposed and developed:

- I have **reduced testing effort by 80%** proposing a Kubernetes architecture to enhance integrated tests in a dev environment.
- I created an **automated test suite** in CI/CD pipelines, saving 60% of the working time.

### Software & DevOps Engineer

Capgemini for Ericsson | 1 year (Jan 2021 - March 2022)

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.

### 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 functionalities. Estimation of the activities and team coordination.

Major contribution I proposed and developed:

- I **redesigned SQL queries** to improve the search time up to 30%.
- I **refactored REST APIs** to filter errors faster reducing 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: bicycle selling portal, interview questions generator system.

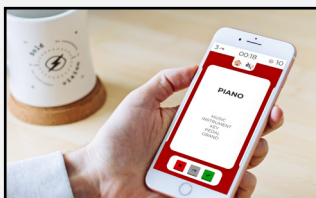
**Thesis:** Sepsis detection system through CoreNLP

### High School - Computer Science

Istituto tecnico Basilio Focaccia | Jun 2011

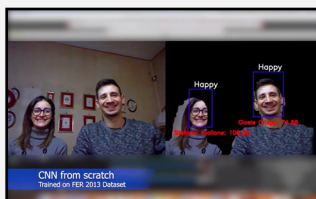
## PROJECTS (non-work related)

find more on [stefaniaavallone.github.io](https://stefaniaavallone.github.io)



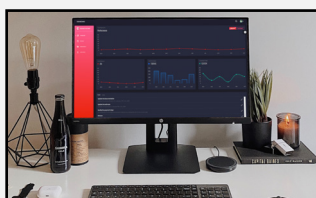
### Kaboo - Word Game

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.