

# Giada Gabriele

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## Skills

C++, Java, SQL, Python, Perl, HTML, CSS, JavaScript, ASP-DLV, Networks and GNS3, Android App Development, Spring, Angular, Data Analytics (Data Warehouse & Machine Learning), Django

## Languages

Italian (mother tongue), English (B2)

## Education

2021 - CURRENT

**Università della Calabria, Rende** – *Master Degree*

Field of study: Artificial Intelligence and Computer Science (Computer Security)

Final grade: -

2016 - 2021

**Università della Calabria, Rende** – *Bachelor Degree*

Field of study: Computer Science

Final grade: 90

2011 - 2016

**Liceo Statale Lucrezia della Valle, Cosenza** – *Diploma*

Field of study: Human Sciences

Final grade: 97

## Projects

PSH (Marvel Version) — Object-oriented Programming Group Project

Recreated the game Pirate Ship Higemar. It is a maze video game, the player has the ability to grab items which he can throw (either horizontally or vertically) across the screen to defeat the enemies. To complete the game the player must defeat all the enemies of the 3 levels. Developed with C++ using lib Allegro5.

### [Source code on GitHub](#)

#### Bubble Bobble — Graphic Interfaces and Event Programming Group Project

Recreated the game Bubble Bobble. It is an arcade platform video game, it features a dragon named Bub who is capable of spitting bubbles. The aim of the game is to defeat all the enemies in the level and move on to the next level, until you reach the final level. You can only enter the next level when all objects (left by defeated enemies) in the map have been collected. Developed with Java.

[Source code on GitHub](#)

#### L'Archivio delle Volpi — Web Computing Group Project

Platform with a large catalog of video content (movies and TV series). The main purpose is to enable the User to find, by text search or filtering by "Genre", the desired video content. Each one has a brief plot, description, trailer and on which streaming platform it is available for viewing. The platform can be used by Registered Users (who have the possibility to leave a review and create a favorites list), Unregistered Users, and the Administrator (who can edit the catalog). Developed with HTML-CSS-JS (Bootstrap), PostgreSQL, PgAdmin.

[Source code on GitHub](#)

#### Infocard — Bachelor Degree Thesis Project

This thesis work aims to design and develop an Android application, called Infocard, able to better manage contacts through a "smart" address book with some references to typical social network functions. In particular, through a system of requests, it is possible to view the personal data of users, such as profile picture, nickname, name, surname, especially e-mail and telephone number, and keep them close at hand within Infocard. Developed with Java and Firebase.

[Source code on GitHub](#)

#### Vinted — Agile Software Development Group Project

Created a platform modeled on the Vinted website (an online second-hand clothing-focused buying and selling service that allows transactions to take place completely securely and at no extra cost). Developed with Spring, MySQL and Angular.

[Source code on GitHub](#)

#### Global Climate Change Analysis — Data Analytics (Data Warehouse and Visualization) Project

Analysis of a dataset focused on global climate change, in particular on the exposure to the climate in some economics, social and geographical areas. Developed with Tableau Software.

[Source code on GitHub](#)

#### COMPAS Scores Analysis — Data Analytics (Machine Learning) Group Project

Correctional Offender Management Profiling for Alternative Sanctions (COMPAS) is a case

management and decision support tool developed and owned by Northpointe used by U.S. courts to assess the likelihood of a defendant becoming a recidivist. The main goal of this academic project is to determine and predict if a defendant becomes a recidivist. The secondary goals are: predict if a defendant becomes a violent recid or not and predict the difference (in days) between the date of the first crime and the date of the recidivist or the violent recidivist offense. Developed with Python (libraries: Pandas, Seaborn, Scikit-learn, Matplotlib, NumPy) using Jupyter Notebook.

[Source code on GitHub](#)

Assignment — Algorithmic Game Theory Project

The assignment demanded to implement a system (a mechanism) that selects the user who will perform the tour, defines the places that the tour will visit and defines the payments charged to the users. The only constraint is the maximum payout. Costs proportional to kilometers should be equally distributed and fixed costs should be based on declared utilities (truthful declarations of utilities). The paper was written in LaTeX, with Overleaf.

[Source code on GitHub](#)

The CIA Hive Component — Network Security Group Project

Based on documents released by WikiLeaks, this project aims to explain and replicate a cyber attack through the CIA's Hive tool. We have not been able to configure everything but you can consult the source code to access materials and explanations of how Hive is supposed to work.

[Source code on GitHub](#)

COD — Cyber Offense and Defense Group Project

The goal of this project was to write 3 complete scripts that solved 3 chosen challenges on PortSwigger Web Security Academy and implement a vulnerable backend. Vulnerabilities treated: CSRF, command injection, XXE injection, file upload (+ stored XSS). Developed with Python, Flask and HTML.

[Source code on GitHub](#)

Dressy — Secure Software Design Group Project

Development of a dress loan service. Two models, dress and loan, two levels of access, to allow more control over who-does-what. Developed with Python, Pytest, Django, Django REST Framework and React.

[Source code on GitHub](#)

House Building — Process Mining Group Project

In this project we analyzed the process of building a house, using process mining techniques. This analysis examines the process from the moment the house project is commissioned to the construction company, and ends when the house is ready. Developed with BPMN editor, BIMP simulator, WoPeD and ProM. You can consult the source code to read the report.

[Source code on GitHub](#)