GIADA GABRIELE

computer scientist

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ABOUT ME

Bachelor degree graduate in computer science, master degree graduate in artificial intelligence and computer security. Passionate about digital forensics.

SKILLS

C++, Java, Python, Perl, DLV-ASP, HTML, CSS, JavaScript, SQL (MySQL, PostgreSQL, Firebase), Spring, Angular, Django Framework, cybersecurity tools (Wireshark, ZAP, Burp Suite), data analytics (Pandas, NumPy, Seaborn, Scikit-learn, Matplotlib).

MAIN PROJECTS

GitHub link
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.

GitHub link
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.

GitHub link
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 using Jupyter Notebook.

GitHub link
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.

PUBLICATIONS

1

Alviano, Mario.; Gabriele, Giada. Improve Parallel Resistance of Hashcash Tree. Cryptography 2024, 8, 30. https://doi.org/10.3390/cryptography8030030

EDUCATION

9/2021 - 7/2024 **Artificial Intelligence and Computer Science (Computer Security)** — **Master Degree**
Università della Calabria - final grade: 95/110

9/2016 - 3/2021 **Computer Science** — **Bachelor Degree**
Università della Calabria - final grade: 90/110

9/2011 - 7/2016 **Human Sciences** — **Diploma**
Liceo Statale Lucrezia della Valle - final grade: 97/100

LANGUAGES

Italian - mother tongue, **English** - B2