

DAVIDE GENA

Curious about the computer world from an early age. Passionate about problem solving and IT security and ready to know and learn as many new technologies as possible. I like being creative in what I do with good skills in using some graphic tools and digital video editing.



CONTACT

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- Davide Gena

SKILLS

Programming

C++; Java; Python; Perl; Javascript; HTML/CSS; SQL (PostgreSQL, MySQL); OpenCV; Pandas; LibGDX; DLV2; LaTeX; Git; Bash.

Other skills

- Web scraping
- Secure Software Design (Django development)
- GPGPU Programming (CUDA development)
- Instructional Design (Moodle, iSpring, etc.)
- Data Mining (Pandas library)
- Data Warehouse (Hitachi Pentaho, Tableau)
- Agile Software Development
- Network Security
- Network Engineering
- Computer vision & neural networks
- Mobile device programming
- Graphics skills (Adobe Creative Suite)
- Digital video editing
- Office suite
- CAD software

Operating Systems

Linux
Windows

Languages

Italian
English

Driving license

AM (IT)
B (IT)

CERTIFICATES

CyberChallenge.IT Certificate - National Laboratory Cybersecurity - CINI

WORK HISTORY

- 09/2020 - 11/2020 University of Calabria, Rende (CS) **Software Engineer**
(Stage and Graduation Thesis)

Development of a crowding prevention system with the aim of reducing the spread of the current COVID-19 pandemic. The system adopts artificial vision techniques, or computer vision, offered by the OpenCV library to analyze the frames of a video stream in order to recognize the presence of human figures and determine their position in the visual field of the video source. The information thus obtained is then used to recognize situations of violations of social distance or gathering.

Main technologies: Python+PySimpleGUI, OpenCV (with a Caffe neural network model), OpenVINO toolkit.

[Direct link to GitHub page](#)

EDUCATION

- feb 2022 - jun 2022 National Cybersecurity Laboratory - CINI, Course in CyberSecurity CyberChallenge.IT

The training course aims to provide the methodological and practical bases required to analyze vulnerabilities and possible attacks, identifying the most suitable solutions to prevent them, in different areas of cybersecurity. In particular, it allowed me to study in depth the following thematic areas: Ethical Hacking; Cryptography; Web Security; Software Security; Hardware Security; Network Security; Access Control; OSINT.

- 2021 - CURRENT University of Calabria, Rende (CS) **Master degree in Artificial Intelligence and CyberSecurity**

Specialist with scientific and technological expertise in the field of cybersecurity, artificial intelligence and data science.

- 2017 - 2020 University of Calabria, Rende (CS) **Degree in computer science**

Professional figure oriented to problem-solving, with good knowledge in the field of computational sciences and computer systems, capable of understanding and using mathematical models of scientific, technological and economic interest, and qualified to carry out, in a corporate environment, activities of creation and management of advanced software systems and computer networks.

- 2012 - 2017 Istituto Tecnico per Geometri "Falcone e Borsellino", Corigliano-Rossano (CS)

Technical and Professional Institute Diploma