

# 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
- Portfolio

## 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
- Network/Web traffic analysis  
(Wireshark, Burp Suite, OWASP Zap)
- Penetration testing  
(SQLi, SSRF, CSRF, XSS, RCE, etc.)
- Networking multicloud
- VPN (Mesh and Hub&Spoke)
- Distributed K8S clusters
- Use of Cloud platforms (Azure, AWS)

## WORK HISTORY

- 11/2023 - 1/2024      University of Calabria, Rende (CS)      **Tutor - "IT Area"**  
Tutoring activities for courses in the IT area (Degree Course in Computer Science - UNICAL), specifically for the courses of:
  - Programming Fundamentals 1 (problem solving in Python);
  - Parallel Algorithms and Distributed Systems (POSIX Threads and MPI parallel programming in C/C++);
  - Computer Architecture;
  - Fundamentals of Networks and IT Security.

Acquired skills: teamwork, teaching methodology.

- 06/2023 - 9/2023      Agile Lab, Turin (TO)      **Site Reliability Engineer  
(Stage and Graduation Thesis)**  
○ Investigating mechanisms for integrating different clouds from the networking standpoint, benchmarking the adoption of VPN meshes versus hub and spoke models;  
○ Feasibility of building cross-cloud Kubernetes clusters, cluster federation versus a global Kubernetes cluster;  
○ Possibility to implement a cross-cloud data storage abstraction;  
○ Comparison of the performance, security, and ease of use of mesh and traditional VPNs for transparently accessing networked resources across multiple cloud providers.

Acquired skills: Networking multicloud, VPN (Mesh and Hub&Spoke), distributed K8S clusters, Microsoft Azure, Amazon Web Services.

- [Direct link to GitHub page](#)
- [Direct link to my talk at CyberXcelerator 2023](#)

- 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

*Operating Systems*

Linux

Windows

*Languages*

Italian

English

*Driving license*

AM (IT)

B (IT)

## CERTIFICATES & BADGES

- Cyber-Security Workshop - Fastweb Digital Academy
- Python Certificate - HackerRank
- CyberChallenge.IT Certificate - National Laboratory Cybersecurity - CINI
- Sicurezza dei dati: livello base - Fastweb Digital Academy
- Sicurezza dei dati: livello intermedio - Fastweb Digital Academy
- Sicurezza dei dati: livello avanzato - Fastweb Digital Academy
- Sicurezza dei dispositivi: livello base - Fastweb Digital Academy
- Sicurezza dei dispositivi: livello intermedio - Fastweb Digital Academy
- Sicurezza dei dispositivi: livello avanzato - Fastweb Digital Academy