Michele Vincenzo **Gentile**

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Education

Sapienza Università di Roma   *Rome, IT*
BACHELOR'S DEGREE IN COMPUTER SCIENCE   *Sep. 2023 - Oct. 2026*
- Cumulative GPA 3.87/4.0
- Teaching Area Council Student Representative, Faculty Student Representative, Monitoring Commission Student Representative
- Coursework: Python, Digital Systems Design, Computer Architecture, Algorithms, Java, Databases I and II, Computer Networks

Work Experience

Sapienza Fast Charge Racing Team   *Cisterna di Latina, IT*
SOFTWARE ENGINEER   *Dec. 2023 - Present*
- Developed firmware for autonomous vehicle control using model-based design techniques with Simulink and Speedgoat, achieving zero communication errors and reducing latency by 75%, from 2 to under 0.5 seconds.
- Implemented real-time communication solutions for autonomous vehicles, managing 200Hz data flow between processing platforms, sensors, and actuators to enhance responsiveness and safety.
- Designed and integrated HMIs for Formula SAE vehicles, using Arduino and Nextion, reducing dashboard interaction time by 40%.

Italian Ministry of Justice   *Rome, IT*
IT SUPPORT   *Dec. 2023 - Sep. 2024*
- Managed data for 491 social inclusion projects, enhancing resource allocation and strategic planning by 70%.
- Developed a nationwide questionnaire for home detainees, streamlining the Inclusion Allowance request process and improving application speed by 84%.
- Helped establish a telematic Help Desk for a critical system, reducing technical support requests by 40%.

Projects

PlantinoCare   *GitHub Repo*
PYTHON, PHP, JAVASCRIPT, SQL, C++, HTML
- Created a data collection system using a micro-controller and four sensors to monitor plant and environmental conditions, processing and displaying data via a web application accessible from both smartphones and computers.
- Optimized plant conditions and reduced water consumption by up to 30% through actionable insights provided by the application.
- Showcased the project at the 2023 Rome Maker Faire, selected from top European applicants, highlighting innovation and impact.

File Integrity Monitor   *GitHub Repo*
POWERSHELL
- Accurately detected 100% of changes in a monitored folder, including modifications, deletions, and additions, using SHA256 hashing to ensure comprehensive file integrity and security.

Folder Organizer   *GitHub Repo*
PYTHON
- Engineered a Python-based GUI tool that reduced file sorting time by approximately 99.8% (compared to a person manually organizing a folder with 500 elements) through automation based on file type, date, or size.
- Designed and integrated features for customizable folder naming and organization criteria, achieving an 80% reduction in user setup time compared to other programs and enhancing overall organization precision.

Extracurricular Activity

2024	**Erasmus+**, Universitat de les Illes Balears
2023	**Exhibitor**, Maker Faire Rome - European Edition
2022	**243th Place**, Italian IT Olympics
2022	**1st Place**, Regional IT Olympics

Skills

Technologies C++, Python, Java, SQL, PHP, HTML, CSS, JavaScript, Next.js, Simulink, PowerShell
Languages Italian (Native), English (C1), Spanish (A2), French (A2), Catalan (A1)
Certifications CCNA 1, Linux Essentials, CyberSecurity Essentials (Cisco); Relational Databases (Stanford); Data Science Foundations (Google)