

ANTONIO DI LAURO

Information engineering MSc student

LANGUAGES AND CERTIFICATION

Italian — Native language

English — B2 First Certificate

Driving license — Category B

OBJECTIVE

To apply my skills in Information Engineering and emerging technologies to the development of innovative, intelligent, and scalable software systems.

EXPERIENCE

Analyst Software Engineer | Fincons Group, Trento (TN) | Jan 29, 2024 – Jun 28, 2024

Collaborated in the development and maintenance of software solutions for the financial services sector, contributing to the implementation of backend modules using **Java** and **Gosu** within an **agile** working environment.

Main activities:

- Analysis and implementation of new features in enterprise applications;
- Debugging and optimization of code to improve stability and performance;
 - Participation in code reviews and continuous integration processes;
- Collaboration with a multidisciplinary team to ensure software quality and architectural consistency.

Result: strengthened autonomy in the software development lifecycle and enhanced skills in **enterprise architectures** and **agile methodologies**.

Thesis | University of Trento | 2023 - 2024

Development of a **Digital Twin** for wireless coverage analysis in urban environments, as part of the Bachelor's degree thesis.

- Signal modeling and propagation simulation in real-world scenarios;
- Use of simulation and data analysis tools to optimize radio coverage.



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[Antonio Di Lauro | LinkedIn](#)



[Antonio Di Lauro | GitHub](#)

For a comprehensive overview of academic and personal projects: [Portfolio](#)

SKILLS

Technical skills

- **Languages & Scripting:** Python, C++, Java, C#, SQL, Bash/Linux scripting
- **Machine Learning & AI:** Scikit-Learn, TensorFlow, PyTorch, Deep Learning, Computer Vision (YOLO,

EDUCATION

Master's Degree in Information Engineering | Set 2024 – ongoing | University of Trento

Main courses: Computer Graphics, Computer Vision, Digital Signal Processing, Distributed Systems, Networking, High Performance Computing, Machine Learning, Cybersecurity.

Program objective: design and development of complex information systems and scalable software solutions based on AI and HPC technologies.

Bachelor's Degree in Computer Engineering | Nov 26, 2024 | University of Trento

Thesis: *"Development of a Digital Twin for Wireless Coverage Analysis in Urban Environments"*

Acquired skills: programming (C, C++, Java, Python), computer architectures, networking, operating systems, databases, machine learning, wireless propagation, and IoT systems.

Scientific High School Diploma | 2021 | Liceo Majorana Laterza, Putignano (BA)

Traditional scientific curriculum with in-depth studies in mathematics, physics, and computer science.

CyberChallenge.IT – Admission Phase | 2020 | Politecnico di Bari

National training program in cybersecurity, focusing on cryptography, network security, secure programming, and vulnerability analysis.

Programming of NUCLEO Board with MBED Environment | 2020 | STMicroelectronics, Arzano (NA)

Technical and practical course focused on embedded programming and the use of the MBED platform for ARM microcontrollers.

Use of Drones for Surveying and Automation | 2019 | P.D.M. di Pietroforte Antonio & Polluce Rosa S.N.C., Acquaviva delle Fonti (BA)

Training activity on drone piloting techniques and industrial applications in surveying and automation.

Basic Arduino Course | 2019 | Liceo Majorana Laterza, Putignano (BA)

Introduction to electronic prototyping with Arduino microcontrollers and fundamentals of automation.

pose estimation), Large Language Models (LLM)

- **Systems & Architectures:** Distributed Systems, Operating Systems, Cloud Computing fundamentals, High Performance Computing (HPC), Docker/Containers (basic Kubernetes)
- **Networking & Security:** TCP/IP, Routing, Network & Computer Security, Internet of Things (IoT), Low-Power Wireless Networking, SDN slicing concepts, Digital Twin
- **Software & Web Development:** Software Development Lifecycle (SDLC), API design/integration, Web applications (Node.js/React), Computer Graphics (Blender, rendering)
- **Data Analysis & Visualization:** Pandas, NumPy, Matplotlib, Seaborn, Plotly, Data preprocessing & feature engineering

Soft skills

Advanced problem solving, teamwork in multidisciplinary contexts, adaptability, analytical and strategic thinking, research and innovation mindset, technical communication.