CRISTIAN C. SPAGNUOLO

Milan, Italy

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EDUCATION

Politecnico di Milano   **02 2020 – 07 2024**
*Master Degree in Computer Science and Engineering - **110/110 cum laude***   *Milan, Italy*

Università degli Studi del Sannio   **09 2015 – 10 2019**
*Bachelor Degree in Computer Science - **110/110 cum laude***   *Benevento, Italy*

PROJECTS

Teleport Markov Decision Process ↗   **07 2024**
- Master Degree thesis: Curriculum Learning through Teleportation: The Teleport MDP.
- Developed a novel approach to curriculum learning using teleportation mechanisms, resulting in improved training efficiency in a team of 4 people.
  Main Technologies: Python, ML libraries, MLFlow.

Secure Network Rebrand ↗   **06 2021**
- Course Project: Web App Development
- Rebranding of the company website with advanced user interface, enhancing user engagement and overall functionality, 3 people team.
  Main Technologies: HTML, CSS, JavaScript, PostgreSQL, Heroku, VueJS, Canva.

Node Cloud ↗   **07 2021**
- Course Project: Node Cloud, an IoT monitoring system based on Node-RED.
- Implemented a real-time monitoring system for IoT devices, enabling efficient data collection and analysis of more than 100 sensors.
  Main Technologies: Java, Javascript, MongoDB, NodeJS, Node-RED, MQTT, HTTP.

Heap Exploitation Challenge ↗   **07 2021**
- Course Project: Asciigal challenge, heap exploitation write up.
- Analyzed and documented heap exploitation techniques, enhancing understanding of cybersecurity vulnerabilities.
  Main Technologies: Python, Pwntool, GDB, Ghidra.

TECHNICAL SKILLS

- **Languages:** Python, Java, C, C++, JavaScript, SQL, NoSQL, JSON, XML, Assembly MIPS, Assembly x86, HTML, CSS, LaTeX.

- **Operating Systems:** Linux, Windows, Android, iOS, macOS.

- **Machine Learning/AI:** Pandas, Numpy, TensorFlow, Torch, Matplotlib, Keras, Gym, Gymnasium, StableBaseline, MLFlow, Tensorboard, Scikit-learn, XGBoost, Seaborn, SciPy, NN.

- **CyberSecurity:** Wireshark, PwnTools, OWASP ZAP, Requests, Hashcat, John the Ripper, Burp Suite, Ghidra, GDB.

- **Technologies/Frameworks:** Git, Django, Docker, GitHub, NodeJS, Mongo, NodeRed, PostgreSQL, MySQL, FireBase, VueJS, Eclipse, AndroidStudio, Docker, Microsoft 365.

LANGUAGE SKILLS

- **English:** Fluent, Master's degree completed in English, IELTS B2 Certification.

- **Italian:** Native.

SOFT SKILLS

- Throughout my academic career, I successfully collaborated with multiple teams on projects spanning web development, machine learning, cybersecurity, and IoT. These experiences have sharpened my ability to effectively **communicate** technical concepts to non-technical audience, tackle and **solve** complex problems, improve my **multitasking** skills, and quickly **adapt** to new technologies and challenges.