

Luca Attanasio

Engineer in Computer Science- attanasioluca02.it

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EXPERIENCE

Sapienza Universitá di Roma — Erasmus Office

SEP 2023 - SEP 2024

Managed the digital transition of Erasmus student archives.
Performed statistical analysis on 10 years of application data.
Assisted international students with visa and residence permit procedures (English).

EDUCATION

M.Sc. in Engineering in Computer Science — In Progress

Sapienza University of Rome — 2024–2026

Focus: Data Management, Software Engineering, AI/ML, Distributed Systems.
Developed advanced projects involving full-stack development, reinforcement learning and ROS2 robotics.

B.Sc. in Computer Engineering — 105/110

Sapienza University of Rome — 2021–2024

Foundations in programming, networking, databases, statistics, physics, and control systems.

PROJECTS

GameFinder – Full-Stack Web App

React TypeScript · Node.js/Express · MongoDB

- Built a full-stack application with REST APIs, advanced filtering, pagination and OAuth login.
- Designed the full architecture: frontend, backend, database and deployment.

CarRacing DDQN – Reinforcement Learning Agent

PyTorch · Gymnasium

- Implemented a Deep Double Q-Learning agent with replay buffer, target networks and epsilon-greedy policy.
- Achieved performance surpassing an average human player.

Robotic Arm Control in ROS2

- Implemented trajectory planning and control for a simulated robotic manipulator with the MoveIt library.
- Created nodes, launch files and coordinated multi-movement tasks.

SKILLS

Programming:
TypeScript, JavaScript, Python, C/C++, React, Node.js, Express, REST APIs, Git.

Software Engineering:
design patterns, testing, distributed architectures.

Machine Learning:
PyTorch, reinforcement learning (DDQN), supervised/unsupervised learning, NLP.

Data Management:
MongoDB, SQL, query optimization, big data.

Networks & Cybersecurity: protocols, SDN, NS3, application security.

Robotics: ROS2, MoveIt, robotic simulation & motion planning.

Processes: BPMN, process mining.

LANGUAGES

Italian - Native speaker
English - C2