

# Alessio Pittiglio

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## Education

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### Academic Qualifications.....

- **MSc in Artificial Intelligence** 2023 – Now  
*University of Bologna*
- **BSc in Computer and Telecommunication Engineering** 2018 – 2023  
*University of Cassino and Southern Lazio*  
Final Mark: 108/110  
Weighted average: 27.4/30

### Notable Projects.....

- **Backpropagation from scratch** November 2023  
In the context of my bachelor's thesis project, I have implemented the backpropagation algorithm from scratch in MATLAB.
- **Air Traffic Control** Oct. 2020 – Oct. 2021  
Leading the development of an application for the simulation and automatic management of short-range air traffic control. It implement an AI to avoid collision and to minimize delay.
- **Chat App** Jun. 2021  
Developed a web application to send messages between multiple users in real time using React, Node.js, Socket.IO.
- **Pacman AI** Oct. 2020 – Dec. 2020  
Implemented the Pacman game with an AI to help the ghosts capture Pacman. Custom levels are read and recognized with OpenCV.

## Technical skills

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- **Programming Languages:** Proficient in C++, Python, SQL, MATLAB,  $\LaTeX$   
Also basic ability with HTML5, CSS, JavaScript
- **Software and Frameworks:** Visual Studio, Eclipse, CMake, Git, MySQL, PostgreSQL, Qt

## Certification

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**B2 First** *Cambridge Assessment English*