

# ALESSANDRO CASTELLI CURRICULUM VITAE

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## PERSONAL INFORMATION

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## PROFESSIONAL OBJECTIVE

Computer scientist with a strong background in Artificial Intelligence and Cybersecurity, passionate about cutting-edge technologies. Looking for opportunities to apply analytical and problem-solving skills in innovative projects.

## SKILLS

### Programming Languages :

- General-purpose : Python, Java, C++, C, C#
- Functional : Scheme, Haskell

### Artificial Intelligence :

- Machine Learning : Traditional & Quantum ML (Scikit-learn, TensorFlow, JAX, PennyLane, etc)
- Deep Learning (PyTorch, Keras, TensorFlow)
- Automated Reasoning Systems

### Cybersecurity :

- Network Security
- Cryptography Fundamentals (AES, RSA, ECC, Hashing, etc)

### Software Engineering :

- Algorithms
- Data Structures
- Databases (PostgreSQL, MySQL)
- Version Control (Git, GitHub, GitLab)
- Operating Systems : Unix, Linux, Windows

### Languages :

- Italian (Native)
- English (B2 - Certificate in Advanced English)

## WORK EXPERIENCE

### Internship at "Blue Reply" – Full Stack Developer

*Apr 2024 - Jun 2024*

Developed a gamification solution for a leading company in the insurance sector. Worked as a full-stack developer, implementing the project with technologies such as Spring Boot for the backend, Node.js for server-side service management, and SQL for data handling. Integrated modern solutions to ensure a scalable and efficient product, with a focus on performance optimization, robust code, and an engaging user experience.

### Internship at "Ensoul" - Accessibility Specialist

*March 2022 - June 2022*

Collaborated with the company to conduct web accessibility studies and co-authored an article titled "The Shape of Web to Come".

## EDUCATION

### Double Master's Degree in Artificial Intelligence & Cybersecurity

*University of Udine and University of Klagenfurt - (2022 – April 2025) (In progress)*

### Bachelor's Degree in Computer Science

*University of Udine - (2019 – 2022)*

### High School Diploma – Scientific Studies - 2019

## MAIN COURSEWORK

- Programming and lab
- Algorithms and data structures and lab
- Object-oriented programming
- Operating systems and lab
- Databases and lab
- Programming languages
- Software engineering
- Computer network security
- Deep learning
- Automated reasoning
- Complexity and information theory
- Video Game Programming