## Contact

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**Location**
Cosenza, Calabria, Italy

**GitHub**
https://github.com/Pierf22

## Profile

Master's student in AI and Computer Science focusing on Cybersecurity, seeking a part-time position to apply and expand my skills.

## Skills

- **Languages:** Python, Java, JavaScript, TypeScript, SQL, Kotlin, Perl, C++
- **Frameworks:** Spring Boot, FastAPI, Angular, Jetpack Compose, Ionic
- **Databases:** MariaDB, MySQL, PostgreSQL, MongoDB
- **Tools:** Docker, Git
- **Other:** RESTful APIs, Unit Testing

## Languages

- **Italian:** Native proficiency
- **English:** Upper-Intermediate (B2)

## Certifications

July 2022
**B1-Upper Università della Calabria DEMACS**

June 2021
**B2, Cambridge First Certificate in English - FCE**

# Pierfrancesco Napoli

Graduate in Computer Science
Entry-Level IT Professional

## Education

| 2024 – Present<br>Università della Calabria, Rende (CS) | **Master's Degree in Artificial Intelligence and Computer Science**<br>Currently pursuing, following the Computer Security track. |
|---|---|
| 2021 - 2024<br>Università della Calabria, Rende (CS) | **Bachelor's Degree in Computer Science**<br>I graduated with a final grade of 107/110.<br>Significant Exams:<br>- **Enterprise Applications** – Focused on designing scalable, efficient applications using Docker and Spring Boot.<br>- **Software Engineering** – In-depth study of software development methodologies, including Agile.<br>- **Databases** – In-depth knowledge of database design, optimization, and management, with experience in both SQL and NoSQL databases.<br>- **Artificial Intelligence** – Exploration of AI applications and study of Answer Set Programming (ASP) for solving complex computational problems.<br>- **Web Applications** - In-depth study of Angular for building dynamic web applications. |
| 2016 - 2021<br>"Pezzullo" Commercial and Technical Institute, Cosenza | **High School Diploma**<br>Graduated with a score of 100/100, specializing in the SIA (Business Information Systems) track. Subjects, studied included Computer Science, Business Economics, Law, and Literature. |

## Projects

### Secure ASP

Designed and implemented a system using **FastAPI** (backend) and **Angular** (frontend) to sign and share **Answer Set Programming (ASP)** encodings securely. The system offers Python tools for signing encodings and ensures secure user access through intermediate certificates generated by the server for identity verification.

### OnlyCards

Developed an enterprise-level application using **Spring Boot** for backend services, including API development, data management, and security. Created a dynamic website interface using **Angular**, additionally, developed an Android application using **Jetpack Compose** with a declarative UI approach.

### Patient Management Application for a Healthcare Organization

Developed a patient management application for a local hospital, designed to assist healthcare operators in diagnosing patients. The application uses **Answer Set Programming (ASP)** to analyze medical data and provide diagnostic support. It integrates patient records, medical history, and diagnostic results, and was developed as a ready-to-use mobile app using Ionic for cross-platform compatibility.

### Tron-Battle

Developed an **AI agent** for the Tron Battle competition, using **Answer Set Programming (ASP)** to design various modules such as attack, defense, and movement strategies. The agent was built to participate in a competitive environment with four teams, where it dynamically adapts its behavior based on the game state.