

Manuel Arto

ABOUT ME

Graduate student in Computer Science, currently enrolled in a Master's program at the University of Bologna, while working part-time as a developer at Archeion.

I have professional experience in software development, with specific interests in backend programming and blockchain.

WORK EXPERIENCE

FEB 2024 - PRESENT

Archeion Startup, Bologna

Full-stack Developer

- Working part-time in a development team of 5.
- Developed from scratch one of the main Archeion App designed for vendors using Ionic and Angular.
- Developed from scratch a backend application related to a URL shortening service using NestJS, securing over 1 million active URLs within six months of launch.
- Assisted in the development of the core system architecture involving web2 and web3 technologies.

SEP 2021 - SEP 2023

Net Service, Bologna

Backend Developer

- Management and development of a platform for collecting data on court proceedings for more than 40 credit institutions.
- Development of a 5 microservices system using Spring Boot and OpenShift for deployment.
- Migration from silos to multitenant architecture saving more than 80% in resources.
- Integration of Apache Camel, ActiveMQ and ETL scripts to handle a data stream of more than 100 million records.
- Test-Driven Development (TDD) via JUnit for new feature development, for 75% coverage.

SKILLS

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|-----------|--|
| TECHNICAL | Python, Java, Solidity, Go, Node.js, Flutter, C++, Angular, Svelte, Vue, MongoDB, PostgreSQL, Blockchain, Docker, ETL, Linux, Git, Design, Testing |
| SOFT | Collaborate, Communication, Fast, Passion |

HOBBY

Calistenichs, Chess, Manga, Movies and TV Series

🏠 Bologna, Italy

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🐙 Github

in LinkedIn

EDUCATION

2023-2025 **Computer Science**
MASTER'S DEGREE
University of Bologna

2020-2023 **Computer Science**
BACHELOR'S DEGREE
University of Bologna

SIDE PROJECTS

- 2023 **SocialTrustr**
- Blockchain-based system aimed at providing traceability and validity of content shared within social environments.
 - Content can be evaluated through the use of digital tokens and an incentive-based mechanism to reduce the spread of fake news and incentivize honest action.
 - Blockchain · Consensus Algorithms · Web3 · Solidity
- 2023 **Livechat**
- Mobile application with advanced social features such as real-time chat, location sharing and a leaderboard based on daily step counts.
 - Python · Flutter · Websocket · MongoDB · JWT
- 2022 **CrazyPlayer**
- AI player capable of playing optimally in all possible instances of the M,N,K-game.
 - Ranked first in a student tournament with over 50 participants, showcasing competitive programming skills.
 - Java · Game Tree · Algorithms · Data Structure

ACHIEVEMENTS

- 2019 **Italian Olympiad in Informatics**
Competitive programming in C++
- MAY 2019 **National IT Competition**
Classified 5th in the entire country UML design and Java development
- OCT 2018 **Erasmus+, Vilnius Lithuania**
Working full-time in a startup