

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, Bologna

Full-stack Developer

- Collaborated part-time in a startup team of 5.
- Built in under 5 months an MVP mobile app for vendors using Ionic and Angular.
- Improved form processing by designing a custom JSON schema renderer.
- Designed a backend application related to a URL shortening service using NestJS.
- Contributed in the development of the core system architecture involving web2/web3 technologies.

IONIC · ANGULAR · NESTJS · WEB3

SEP 2021 - SEP 2023

Net Service, Bologna

Backend Developer

- Managed a legal data platform used by over 40 credit institutions, maintaining 99.9% uptime.
- Reduced infrastructure costs by 80% by migrating from a monolith to a multitenant architecture.
- Developed and deployed a 5 microservices system using Spring Boot and OpenShift.
- Handled a data stream of more than 100 million records using MongoDB, PostgreSQL, ActiveMQ and ETL scripts.
- Achieved a 75% code coverage using TDD via JUnit for new features development.

JAVA · SPRING BOOT · OPENSIFT · ETL · MONGODB · POSTGRESQL · ACTIVEMQ

SKILLS

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

Calisthenics, Chess, Manga, Movies and TV Series

🏠 Bologna, Italy

☎ 388 7833963

✉ manuelarto01@gmail.com

🐙 Github

in LinkedIn

EDUCATION

2023-2025 **Computer Science**
MASTER'S DEGREE
University of Bologna
GPA: 4.0

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

SIDE PROJECTS

2023 **SocialTrustr**

- Created a blockchain-based social media library, to provide traceability and validity of shared content.
- Designed an incentive-based voting system using digital tokens to reduce the spread of fake news.

BLOCKCHAIN · CONSENSUS ALGORITHMS · WEB3 · SOLIDITY

2023 **Livechat**

- Created a full-stack social application with advanced features such as real-time chat and location sharing among friends.

PYTHON · FLUTTER · WEBSOCKET · MONGODB · JWT

2022 **CrazyPlayer**

- Implemented an 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.

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