

# Manuel Arto

## ABOUT ME

Master's student in Computer Science at the University of Bologna and part-time Full Stack 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 Web3 Developer

- Delivered the MVP vendor mobile app using Ionic and Angular in under three months.
- Improved creation of schemas for 10+ clients by designing a custom JSON schema form renderer.
- Designed a scalable URL shortening service, securing over 10M active URLs.
- Migrated customer app to server-side rendering and implemented a Redis-backed cache for dynamic multilingual labels.
- Spearheaded the ZONIA prototype for the EU-funded TrustChain project, building a zero-trust, multi-chain oracle system for IoT devices.

**NESTJS · REDIS · SOLIDITY · ANGULAR · WOT**

SEP 2021 - SEP 2023

Net Service, Bologna

### Backend Developer

- Migrated data for 40+ banking clients from legacy systems into a multitenant legal data platform, processing over 100M records using ETL pipelines and maintaining 99.9% uptime.
- Designed and deployed a suite of five microservices using Spring Boot on OpenShift; handling high-volume data streams and asynchronous workloads.
- Configured Apache/Nginx proxies and optimized scheduling to support new tenants.
- Raised test coverage to 75% through test-driven development with JUnit.

**SPRING BOOT · OPENSIFT · MONGODB · POSTGRESQL · ACTIVEMQ**

## SKILLS

TECHNICAL Python, Java, Solidity, Go, Node.js, Flutter, C++, Android, Docker, Linux, Design, Testing

SOFT Teamwork, Communication, Adaptability, Time Management, Leadership

🏠 Bologna, Italy

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🔄 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 **SocialTrust**  
• Blockchain social media framework for traceability and validity of shared content.  
• Designed an incentive-based voting system using digital tokens to reduce the spread of fake news.

**Solidity · Blockchain · Consensus Algorithms**

2023 **Livechat**  
• Full Stack social app with real-time chat and location sharing capabilities among friends, achieving the highest grade (30L) in the 'Mobile Applications' course.

**PYTHON · FLUTTER · WEBSOCKET · MONGODB · JWT**

2022 **CrazyPlayer**  
• AI player that can play 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