

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

- Built the entire MVP mobile app for vendors using Ionic and Angular in under 3 months.
- Improved creation of schemas for 10+ clients by designing a custom JSON schema form renderer.
- Designed a scalable URL shortening service, securing over 10 million active URLs.
- Migrated customer app to an SSR architecture and designed a Redis-backed cache for on-demand translation of labels.
- Spearheaded the ZONIA prototype for the EU-funded TrustChain project: developed a zero-trust multi-chain oracle system for IoT devices.

NESTJS · REDIS · SOLIDITY · ANGULAR · WOT

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.
- Processed 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 feature development.

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

HOBBY

Calisthenics, Chess, Manga, Movies and TV Series

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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**
• Created a blockchain-based social media framework, to provide 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**
• Built a 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**
• Implemented an 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