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.
• Led the development of a vendor-facing mobile app using Ionic and Angular.
• Developed from scratch a backend service related to a URL shortner 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

• Managed and enhanced a platform for collecting data on court proceedings for more than 40 credit institutions.
• Developed and deployed a scalable microservices architecture (5 services) using Spring Boot and OpenShift.
• Led a migration to multitenant architecture, cutting infrastructure costs by 80%.
• Integrated Apache Camel, ActiveMQ and ETL processes to handle a data stream of more than 100 million records.
• Test-Driven Development (TDD) via JUnit for new feature development, achieving 75% coverage.

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

Calistenichs, Chess, Manga, Movies and TV Series

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Github
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**
• *Blockchain-based system aimed at providing traceability and validity of content shared within social environments.*
• *Implemented a token-based incentive mechanism for user-driven content validation.*
• *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**
• *Designed 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, showcasing competitive programming skills.*
• *Java · Game Tree · Algorithms · Data Structures*

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