

Alessio Barnini

Lead Software Engineer & CTO | Bitcoin Author & Educator

Florence, Tuscany, Italy · barno.ab7@gmail.com



PROFILE

CTO and Lead Software Engineer with over 18 years of experience in software development. Specialized in system architecture, advanced automation (n8n, AI Agents, LLM/RAG) and integration of heterogeneous platforms. Passionate about Bitcoin, cybersecurity and distributed systems. Author of two books and a video course on Bitcoin with thousands of students. OCF certified financial consultant. Currently studying cybersecurity (CompTIA Security+, BTL1).

EXPERIENCE

Lead Software Engineer & IT Manager

Jan 2025 – Present

Futura Oltre SRL

Management of the entire IT infrastructure and company automations: software architecture, tool orchestration, platform integrations (online courses, payments, CRM, marketing automation) and AI systems. Design of automated workflows and LLM/RAG solutions for self-driven customer journeys.

Financial Analyst – Crypto & Traditional Markets

Aug 2021 – Dec 2024

Golden Ratio SRL SCF

Analysis of traditional financial markets and digital assets. Research and study of quantitative models applied to cryptocurrencies and indices. Development of forecasts and market trend reports.

Chief Technology Officer

Oct 2018 – Aug 2021

Bitminer Factory

Responsible for technology decisions and IT infrastructure at one of Italy's leading cryptocurrency mining companies.

Software Engineer

Oct 2016 – Apr 2018

brumbrum

Full-stack software development in an agile environment for an automotive marketplace.

Team Leader / Software Engineer

Jul 2015 – Sep 2016

Ibuildings Italia

Team Leader and Software Engineer. Main project: development of the energy management system for Expo 2015, commissioned by Siemens Monet (featured in Wired Italia).

Software Engineer

Jan 2014 – May 2015

Ibuildings Italia

Enterprise PHP/Symfony application development.

Senior Developer

Apr 2012 – Jun 2013

EcoSeekr Italia Srl

Senior development on web/mobile platform.

Freelance Developer

Feb 2012 – Apr 2012

Self-employed

Web / Software / Mobile developer.

Developer

Mar 2006 – Oct 2011

Delphinnet Communication Associati

Web development and applications for a Rome-based communication agency.

PROJECTS & PUBLICATIONS

Bitcoin In Action – YouTube Channel

May 2020 – Present

YouTube channel dedicated to the practical understanding of Bitcoin using Bitcoin Core. Co-author.

Book: Bitcoin In Action – SegWit, Bitcoin Script & Smart Contracts

Self-published · Nov 2020

Advanced technical book on SegWit and Bitcoin Script. Second book in the series.

Book: Bitcoin dalla teoria alla pratica (From Theory to Practice)

Self-published · Jul 2019

First practical Italian book on the Bitcoin protocol (303 pages). Co-author.

Pocket guide: Bitcoin 199 domande / Bitcoin 199 questions

2019 – Present

Italian and English versions of a pocket guide on Bitcoin.

Video course: Bitcoin dalla teoria alla pratica

Dec 2018 – Present

Complete course on Udemy and Vimeo. Theory (slides) + hands-on practice.

EDUCATION

NEMO NT – Academy of Digital Arts – Web Designer, Developer · 2004–2006

Tecnico Commerciale Statale – Vespucci – Accountant, IT & Economics · 1997–2003

TECHNICAL SKILLS

Languages: PHP · Node.js · TypeScript · Python · JavaScript · Bash · MySQL · MongoDB

Frameworks & Tools: Symfony · Slim · NestJS · Flutter · Webflow · Hugo

Backend & API: REST API · Microservices

Infrastructure: Docker · PostgreSQL · MySQL · Git · CI/CD

AI & Automation: n8n · RAG / LLM (Claude, GPT)

Bitcoin: Blockchain · Bitcoin Script · Bitcoin Core · Books generated with Bash pipeline

CERTIFICATIONS

MongoDB Certified Developer – Associate Level · MongoDB · ID: 473-552-257

OCF Certified – Financial Consultant · Supervisory Body and Register of Financial Consultants (Italy)

ONGOING TRAINING

CompTIA Security+ (*in progress*)

BTL1 – Blue Team Level 1 (*in progress*)

ONLINE PROJECTS

■ Cybersecurity notes & CTF writeups: dev-nulla.vercel.app

■ Bitcoin education & resources: corsobitcoin.com

SOFT SKILLS

Technical Leadership: Experience as Team Leader and CTO in startup and scale-up environments. High-impact architectural decisions.

Startup Mindset: Multiple early-stage companies: strong ownership attitude, fast execution and ability to manage uncertainty.

Technical Communication: Translates complex concepts for non-technical audiences: two published books and a video course with thousands of students.

Curiosity & Continuous Learning: Constant update on AI, LLM, automation, blockchain and cybersecurity. Hands-on approach.

Empathy & Collaboration: Work style focused on relationships, active listening and team growth.

Autonomy & Problem Solving: Independent management of complex projects from research to implementation, strong result orientation.

LANGUAGES

Italian – Native · English – Professional Working Proficiency

■ LinkedIn [linkedin.com/in/alessiobarnini](https://www.linkedin.com/in/alessiobarnini)