

# Mirko Bonasorte

Senior Software Engineer | Software Developer | Software Architect

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A stand-out senior technical professional with a proven track record of architecting cutting edge software. Spent past 7 years with award-winning crypto-currency start-up Conio, playing a key role in its early success. Notably designed, the core Conio platform from scratch, enabling easy management of bitcoin via a smart phone. 12-year tenure as Software Engineer at Tagetik S.r.l., architecting state-of-the-art software solutions that facilitated next level business performance for clients. Passionate about creating value through technology and proactive in keeping up with new and emergent technologies. Combines expert technical expertise with commercial awareness to consistently exceed expectations. Accustomed to leading high-functioning technical teams, with particular strength in development and mentoring. Now seeking a new challenge.

## Key Skills & Strengths

- |                                     |                           |                                 |
|-------------------------------------|---------------------------|---------------------------------|
| ✓ Creating Value Through Technology | ✓ Innovation & Agility    | ✓ Collaboration & Teamwork      |
| ✓ Cross-Sector Experience           | ✓ Communication Skills    | ✓ Challenging Constructively    |
| ✓ Leading Technical Teams           | ✓ Complex Problem Solving | ✓ Turning Strategy into Reality |
| ✓ Technical to Business Interface   | ✓ Commercial Acumen       | ✓ Project Management            |
| ✓ Attention to Detail               | ✓ Strategy Setting        | ✓ Big Picture Thinking          |

## Technical Expertise

<b>Software Architecture:</b>	Design Patterns (GoF), Enterprise Architectures, Domain Driven Design, Microservices Architecture, MVC / MVP, Docker, CQRS, Event Driven Architecture
<b>Programming</b>	Java (J5EE, Java Language, Multithreading, Spring Framework 3.X, Hibernate / JPA), Python (Python 3, Flask, SQLAlchemy / Alembic), Haskell (newbie), Rust (newbie)
<b>Databases:</b>	SQL, Performance Tuning & Plan Analysis, Microsoft SQL Server, Oracle, PostgreSQL, Redis, Kafka
<b>Tools:</b>	Git, Pycharm, IntelliJ, Android Studio, Jjra, Ant, Gradle
<b>Protocol Standards:</b>	XML, XLS, REST, SOA, JSON
<b>Cryptocurrencies:</b>	Bitcoin, Elliptic Curve Encryption
<b>Android:</b>	Basic UI Development, Basic Network Interaction
<b>Amazon Web Services:</b>	AWS, Amazon, IAC, Infrastructure

## Career Summary

### SOFTWARE ARCHITECT

Jul

#### 2015 - Current

##### Conio Inc. - Italy ([www.conio.com](http://www.conio.com))

Conio is an award-winning FinTech start-up. The business researches and develops bitcoin and blockchain products and technologies, helping people to harness the opportunities that crypto-currencies present. Chosen to play a key role in the start-up and scaling of the business, providing vital software architecture expertise and thought leadership. Reported to the CTO and led a team of 5 junior resources. Applied a flexible development approach to development, harnessing elements of Scrum and Kanban.

- Designing, architected and implemented the core Conio platform, enabling easy management of bitcoin via a smart phone.
- Translating the business vision into ground-breaking software solutions; building highly scalable and reliable systems.
- Improving the skills, capabilities and confidence of junior developers through mentoring and support.

Continued...

- Key contributor to open sources libraries adopted by Conio.
- Optimizing agility and efficiency of software delivery by introducing micro-services architecture and Docker containers.
- Implementing Bitcoin cryptography libraries for both the backend and the mobile clients.
- Identifying and pursuing opportunities for improved performance and scalability, harnessing CI/CD practices.

## SOFTWARE ENGINEER

Jan

2004 - Jul 2015

Tagetik S.r.l. - Italy ([www.tagetik.com](http://www.tagetik.com))

Tagetik is a provider of information, software, and services that enable finance, legal, tax, and healthcare professionals to be more effective and efficient. Front end developed innovative software solutions in line with the requirements of businesses and consumers, leveraging Java and Adobe Flex. Specialist database skills were essential. Supported the full SDLC. Worked flexibly, stepping up to take on leadership accountability as needed, including occasional management of a small team, operating as CTO and reporting to the CEO. Worked directly with consultants to meet client requirements.

- Architected state-of-the-art software that provided Tagetik clients with vital insights and intelligence.
- Successfully turned ideas into reality, applying computer science and engineering concepts to deliver effective solutions.
- Seamlessly processed high/large volumes of data using batch SQL data processing.
- Maximized utilization of CPU by multithreading highly concurrent data processing in Java language.
- Optimized software query efficiency with expert SQL fine tuning.
- Improved the user experience, maintaining Tagetik's competitive edge, through UI development (Adobe Flex and Vaadin).

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## Professional Certification & Training

- |  |   |
|--|---|
| • AWS Cloud Practitioner                               | • Spring Core 3.0                                 |
| • Oracle Java 17 (1Z0-829)                             | • Sun Certified Web Component Developer (SCWCD 5) |
| • Sun Certified Business Component Developer (SCBCD 5) | • Sun Certified Java Programmer (SCJP 1.4)        |

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## Education

Master's Degree in Information Technology (110.0/110.0 cum laude), 1999 - 2003  
University of Pisa

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## Personal Projects

1. Alexa Skill - <https://github.com/fcracker79/alexacovid>, implemented using AWS Lambda and Haskell (this was not accepted by Amazon as currently they limit COVID related skills).
2. Alexa Skill <https://github.com/fcracker79/chattyraspi>, implemented using AWS Lambda and QuarkusIO Native (accepted and published by Amazon, see <https://s.mirko.io/0BpD>).
3. URL Shortener - <https://github.com/fcracker79/aws-lambda-haskell-url-shortener>, implemented using AWS Lambda and Haskell (publicly available, see <https://s.mirko.io>).
4. Open Source Contribution to a Bitcoin Library - <https://github.com/fcracker79/pybitcointools>, to Python 3
5. Port of tcomb - a functional combinator library implemented in JavaScript - to Python language <https://github.com/fcracker79/pycomb>.
6. Metaverses indexer (WIP) - <https://metasearch.mirko.io/>, implemented using React, Typescript, AWS Lambda using Rust, IaC, AWS Batch using Python

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## Additional Information

**Nationality:** Italian

**Interests:** Playing piano, astronomy

**Languages:** Advanced English (Certificate in Advanced English - University of Cambridge), native Italian

**References:** Available on request