



Nicolò Andronio

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ABOUT ME

I am a senior software engineer with 7 years of professional experience and almost 20 years of coding experience. I started working in **cyber security** (defense, fraud detection and ransomware detection) and then moved to general **machine learning** (auto ML, orchestration of learning models, time series, big data).

I thrive in stress-free environments that promote learning, constructive criticism and we-mentality over everything else. My goal is constant growth: technical, professional and emotional.

PROFESSIONAL EXPERIENCE

Mind Foundry, Senior Software Engineer

05/2018 – present | Oxford

Applied machine learning for defence, police and insurance. Enhance and streamline data science process for domain experts. Productionize ML models. Architect, design and implement green-field projects from the grounds up.

Cleafy, Software Engineer

10/2015 – 04/2018 | Milano

MITB and fraud detection, fingerprinting, mobile security. High-volume data processing, research and development of novel features, proprietary unsupervised clustering, anomaly detection, non-relational eventually-consistent databases, platform APIs, event queues, jQuery front-end.

EDUCATION

University of Illinois, MSc Computer Science

08/2013 – 04/2015 | Chicago

Politecnico di Milano, MSc Information Engineering

09/2012 – 05/2015 | Milano

Politecnico di Milano, BSc Information Engineering

09/2009 – 07/2012 | Milano

PHILOSOPHY

I am an engineer and a geek at heart. I seek elegance, cleverness and wit in everything: be it code, nature or society. I used to think any system could be properly understood by delving deep enough. I used to think *elegance and simplicity will solve every problem*. Nowadays, I still value that statement, but I realized any solution needs to start from *empathy*.

PUBLICATIONS

Heldroid: Fast and Efficient Linguistic-based

Ransomware detection, 2015, Tokyo, RAID

978-3-319-26362-5 p.382-404

SKILLS

TypeScript (node stack)



Nest.js, TypeOrm, React, React query, MobX, Jest, Storybook, State tree...

Java / JVM



Spring Boot, JUnit, Maven, Lombok...

Firebase



Firestore, Cloud functions, AppCheck, remote config...

Contenerization



Docker, kubernetes, helm...

Large data tools / techniques



Parquet, kafka, elastic, multi-threading, ...

Engineering empowerment



Mentoring, review software architecture, mediate & organize retros, coordinate personal development

Team process



Agile methodology, Atlassian tools, quick iteration, code reviews...

Python



Pylint, mypy, pytest, virtualenv, sklearn, ...

Process automation



CD/CI (BitBucket / GitLab), IntelliJ shared profiles...

Machine learning



Data preparation & wrangling, linear models, NLP, ...

Tech lead



Greenfield projects architecture, pro-actively prepare codebase for upcoming features, pair programming, identify technical limitations...

Design and UX



Laws of ux, design thinking, usability and empathy