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ABOUT ME

I am a graduate in computer science and engineering, with several of years experience as full-stack developer in the field of **cyber security** (defense, fraud detection and ransomware detection) and general **machine learning** (auto ML, orchestration of learning models, time series, big data). I have been coding for more than sixteen years, with a greater focus on algorithms, machine learning, security and game programming. Lately, my professional evolution within two university-bound startups led me to practice with many *Java* and *Python* related technologies, from within an **agile** perspective. I like to consider my job as a growth opportunity, thus I strive to move towards new learning environments that cradle constructive criticism and rapid feedback.

PROFESSIONAL EXPERIENCE

Mind Foundry, *Software Engineer*

05/2018 – present | Oxford

Focus on applied machine learning, prioritizing enhancement and streamlining of the data science process for domain experts. Orchestration of ML models, python-java interfaces, protobuf contracts, platform APIs, React front-end, close interaction with science team. Design thinking and prototyping, green-field platform architecture.

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.

PUBLICATIONS

Heldroid: Fast and Efficient Linguistic-based Ransomware detection, 2015, *Tokyo, RAID*

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

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

SKILLS

Java and the JVM



Spring Boot, Hibernate, Maven, JUnit, lombok...

JavaScript / TypeScript



Node, Express, React, MobX, Redux,...

Optimization



Algorithms, data structures, caching, memoization...

Agile methodologies



Scrumban, atlassian tools, team process optimization...

Large data storage / processing



Parquet, Kafka, Elasticsearch, Dask...

Contenerization



Docker, Kubernetes, Helm, architecture as a service...

Python



Flask, SQLAlchemy, mypy, pytest, virtualenv...

Process automation



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

Machine learning



Data preparation & wrangling, sklearn, NLP...

PHILOSOPHY

I am a programmer, an engineer, a geek. I seek elegance, cleverness and wit in everything: be it code, nature or society, I'm always trying to pierce through and see what lies beyond. That is difficult, sometimes. Every system is complex in its own way but once its foundations and core mechanisms are understood, you can grasp its very essence. That is my way of thinking: *elegance and simplicity will solve every problem*. Well, except Internet Explorer rendering rules.