

LUCA MULTAZZU

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EDUCATION

Master's degree in Cyber Security with Minor in Data Management Systems, ETH of Zurich Expected Summer 2023

Relevant Coursework: Big Data, Applied Cryptography, Security Engineering, Advanced Systems Lab, Algorithms Lab, Advanced Encryption Schemes, Current Topics in Cryptography Seminar.

Current GPA: 5.37/6

Exchange Semester during the Master's, EPFL, Lausanne

Sept 2022 - Feb 2023

Relevant Coursework: Machine Learning, Concurrent Algorithms, Distributed Information Systems, Formal Verification, Experience Design.

Bachelor's degree in Computer Engineering, Polytechnic of Turin

2018 - 2021

Relevant Coursework: Computer Science, Algorithms and Programming, Object Oriented Programming, Computer Architecture, Introduction to Databases, Operating Systems, Computer Networks.

Final Grade: 110/110

IT SKILLS

Programming	Python, Java, C, C++, Scala, parallel computing, distributed computing
Data Management	Apache Spark, MapReduce, Neo4j, GraphQL, SQL, Big Data, Machine Learning, HTable
Cyber Security	Secure Coding, Security Standard, Cryptography, Risk Analysis
Other Skills	Web programming, markup languages, operating systems, computer networks

PROJECTS

Optimal Distributed Read Atomic Transactions. Worked on the development and testing of a new Read Atomic algorithm for distributed transactions over a key-value store.

FNNMF: A fast implementation of non-negative matrix factorization Use techniques such as vector instructions, blocking for cache and registers etc. to achieve significant speed-up on NMF. We ended up getting up to 42x speed-up. More info on the [Course Page](#).

TEACHING EXPERIENCE

Teacher for the Math Summer Courses

July 2022

Istituto Tecnico Industriale Angioy

Sassari, Italy

- Taught 2 classes of 10 students each. I had to prepare my students for an exam that they needed to pass to avoid repeating the year.

LEADERSHIP

- Head of the International Prefects for Whanganui High School (New Zealand) in 2017 (during my year as an exchange student)
- Academic Prefect for Whanganui High School (New Zealand) in 2017 (during my year as an exchange student)
- High School class representative in Italy in 2018

EXCHANGE STUDENT YEAR

Exchange Student in New Zealand during High School

2016-2017, Whanganui

I spent a year in New Zealand as an exchange student at Whanganui High School.