EDOARDO OLTOLINI

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EDUCATION

University of Milan-Bicocca   *October 2023 - t.b.d*
M.S. in Computer Science
Average Grade: 29

University of Milan-Bicocca   *October 2020 - October 2023*
B.S. in Computer Science
Thesis' Project: Development of an Indoor Navigation Application for the University of Milan-Bicocca
Final Grade: 101

KEY SUBJECTS (MASTER'S DEGREE)

Machine Learning
Conents: Supervised and Unsupervised Learning

Information Theory and Cryptography
Contents: Error Correcting Codes, Lossless Compression, Entropy,
(A)Simmetric-key Algorithms, PRNGs, Digital Signatures

Quantum Computing
Contents: Parallelism, Entanglement, Measurements, Quantum Gates,
Operators, Quantum Algorithms, QFT

Unconventional Computing
Contents: DNA Computing, Cellular Computing, Membrane Systems,
Spiking Neural P Systems, Genetic and Social Algorithms

Computational Biology
Contents: Metabolic and Regulatory Networks, Simulation Systems, Gillespie Algorithms,
Spatio-Temporal Models, Interaction Networks, Epidemiological Models

Fuzzy Systems
Contents: Fuzzy Logic, Fuzzy Sets, Fuzzy Unsupervised Learning

Complex Systems
Contents: Shift Spaces, Subshifts of Finite Type, Cellular Automata, Ergodic Theory

Design Lab
Contents: Development of an end-to-end application using Agile Methods
Project: BicoChat - A chat webapp developed in Java (Backend) and Javascript (Frontend)
Roles: Team Leader, SCRUM Master

RELEVANT EXPERIENCE

University of Milan-Bicocca   January 2023 - September 2023
Web Developer   *Bicocca (MI), IT*

· Summary: Development of a Google Maps-like indoor navigation application for the University of Milan-Bicocca. Paths are computed with the A* algorithm (Heuristic: Chebyshev distance). Positions are inferred with BLE Beacons, via RSSI Fingerprinting.
· Tools: Android Studio, Java, Firebase Realtime DB, BLE Beacons

TECHNICAL STRENGTHS

Computer Languages   Java, Python, R, Julia, MATLAB
Protocols & APIs   XML, JSON, SOAP, REST
Databases   SQL, MongoDB, Neo4j
Tools   VSCode, IntelliJ, Eclipse

ACKNOWLEDGMENTS

Award Between Languages: C1, English   Click here to view the certificate (possibly, website is kinda junky)

PORTFOLIO

Github: Click here to visit the page

Contents: Assignments for the Signal Processing course; in-depth study for the Fuzzy Systems course; in-depth study for the Data and Computational Biology course; and a JSON parser implemented in both Prolog and Common Lisp (I'm particularly proud of the Prolog version).