Remo **Andreoli**

PH.D. STUDENT

Pisa, Italy

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Education

Sant'Anna School of Advanced Studies
Pisa, Italy
PH.D. IN COMPUTER ENGINEERING
a.y. 2021 - Current
- Researching on improved and predictable performance in Cloud with a focus on data-intensive applications

University of Pisa
Pisa, Italy
M.SC. IN COMPUTER SCIENCE
a.y. 2018 - 2020
- Grade: 110/110 cum laude (GPA: 4.0)
- Thesis: "RT-Mongo: Differentiated Real-Time Performance on a NoSQL Data-Base"

University College of Dublin
Dublin, Ireland
EXCHANGE PROGRAM ERASMUS
a.y. 2017
- Developed an healthcare android application with four other international students

University of Pisa
Pisa, Italy
B.SC. IN COMPUTER SCIENCE
a.y. 2015 - 2018
- Grade: 101/110 (GPA: 3.22)
- Thesis: "Map and Map Fusion implementation in the FastFlow parallel programming framework"

Experience

Sant'Anna School of Advanced Studies
Pisa, Italy
RESEARCH FELLOW
Jan. 2021 - Jul. 2021
- 6-months research scholarship granted to allow further development of the M.S. thesis project
- Investigated efficient ways to achieve differentiated performance on a distributed SQL data store
- Won the *Best Student Paper Award* at an international conference

University of Pisa
Pisa, Italy
TEACHING ASSISTANT FOR THE "ADVANCED SOFTWARE ENGINEERING" MASTER COURSE
Oct. 2020 - Feb. 2021
- Supervised multiple groups of students in the development of a Microservice application in Python
- Lectured on Python basic data structures and Requests library

Huawei Pisa Research Center - Evidence Srl
Pisa, Italy
SOFTWARE ENGINEER INTERN
Jun. 2019 - Dec. 2019
- Integrated to the CI/CD pipeline several testing tools for a modular Real-Time Operating System
- Decreased the code coverage process completion time by 50%

Publications

Jul. 2021 — **R. Andreoli, T. Cucinotta**, "Differentiated performance in NoSQL database access for hybrid Cloud-HPC workloads" in Proceedings of the 16th Workshop on Virtualization in High-Performance Cloud Computing (VHPC 2021) *Waiting for publication on Springer LNCS* — *Frankfurt, Germany*

Apr. 2021 — **R. Andreoli, T. Cucinotta, D. Pedreschi**, "RT-MongoDB: a NoSQL database with differentiated performance" in Proceedings of the 11th International Conference on Cloud Computing and Services Science (CLOSER 2021) (*Best Student Paper Award*) — *Prague, Czech Republic*

Relevant Projects & Contributions (*See more on* LinkedIn)

RT-MongoDB
PRIORITY-BASED DIFFERENTIATED PERFORMANCE ON MONGODB
- Research project based on the popular NoSQL database MongoDB, written in C++
- Developed a mechanism to serve user requests on a priority basis
- Reduced response times for high-priority users/requests by up to 70%

ePills
PILL MANAGEMENT AND PILL REMAINDER APP
- Four-person Android application written in Java
- Implemented the alarm system, the pill management's back-end and the pill's description retrieve functionality
- Contributed to the design of the user interface