Georgios Damaskinos

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Research Interests

Distributed systems, Machine learning, Mobile computing, Recommender systems

Education

Ecole Polytechnique Fédérale de Lausanne (EPFL), Lausanne, Switzerland
Ph.D. Candidate, Computer Science 09/2015 - Present
Distributed Computing Lab - Rachid Guerraoui

National Technical University of Athens (NTUA), Athens, Greece
Diploma in Electrical and Computer Engineering 10/2010 - 07/2015
(5-year academic program, equivalent to M.Sc. degree)
GPA: 9.46 / 10 (top 2%)
Major: Computer Systems, Computer Software, Computer Networks
Thesis: "Profiling and cost modeling of join algorithms for Big Data Analytics"
Built a machine learning tool that automatically chooses the optimal engine (Spark, Hive, PostgreSQL) and configuration for the deployment of various join algorithms.
Computing Systems Laboratory - Nectarios Koziris

2^{nd} High School of Voula, Athens, Greece
High School Certificate 2007 - 2010
GPA: 19.7 / 20
Major: Information Systems and Services

Publications

Georgios Damaskinos, El Mahdi El Mhamdi, Rachid Guerraoui, Arsany Guirguis, Sebastien Rouault 05/2019
AggregaThor: Byzantine Machine Learning via Robust Gradient Aggregation
MLSys 2019 (Conference on Machine Learning and Systems)

Georgios Damaskinos, El Mahdi El Mhamdi, Rachid Guerraoui, Rhicheek Patra, Mahsa Taziki 07/2018
Asynchronous Byzantine Machine Learning (the case of SGD)
ICML 2018 (International Conference on Machine Learning)

Georgios Damaskinos, Rachid Guerraoui, Rhicheek Patra 05/2017
Capturing the Moment: Lightweight Similarity Computations
ICDE 2017 (IEEE International Conference on Data Engineering)

Experience

Facebook, London, United Kingdom
Software Engineering Intern 06/2019 - 08/2019
Worked on a paper regarding the privacy challenges of the deletion infrastructure by mainly focusing on performance evaluation. Implemented optimizations as a result of the visibility that this evaluation provided.
Language: Hack, SQL, Python

IBM, Zurich, Switzerland
Research Intern 06/2018 - 09/2018
Formally derived and implemented a differentially private algorithm for convex optimization of generalized linear models, as part of the core algorithmic component of SnapML.
Language: Python

Technicolor, Rennes, France
Research Intern 06/2017 - 08/2017
Designed and implemented a method to boost the evaluation of a new recommendation service by exploiting the output of a supposedly well-established online recommender, acting as a black-box that the new service can query. Patent accepted for filing and under submission. Runner up for the best internship award.
Language: Python

Athens Clue, Athens, Greece
Web Developer 12/2014
Designed and implemented a web application for an escape room.
Language: JavaScript, HTML, CSS

High School Students, Athens, Greece
Professional Mentor 03/2012 - 06/2015
Topics: Mathematics, Physics, Programming

Awards

Best Teaching Assistant Award, EPFL 12/2019
EDIC PhD Fellowship, EPFL 04/2015
Thomaideio Award for the top graduating students, NTUA 2015
Papakyriakopoulos Award for excellence in Mathematics, NTUA 2011

Professional Service

Reviewer: MLSys 2019 (external), ICML 2019, ICML 2020
Mentoring projects during PhD: **2** PhD semester, **1** MSc thesis, **11** MSc semester, **1** BSc semester, **2** intern
EPFL teaching assistant: Distributed algorithms CS-451 (2018, 2019),
Real-time systems CS-321 (2018, 2019), Analysis 1 MATH-101 (2016, 2017)

Main Technical Skills

Programming: Python, Java, C, C++
Frameworks/Tools: TensorFlow, Apache Spark, Android NDK, PyTorch

Languages

Greek: Native proficiency
English: Full professional proficiency (C2 - Michigan University ECPE)
German: Limited working proficiency (B1 - Goethe Zertifikat)
French: Elementary proficiency