Georgios Damaskinos

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INTERESTS	Machine learning, Recommenders, Privacy, Mobile and distributed computing, Natural le	anguage processing
Education	Ecole Polytechnique Fédérale de Lausanne (EPFL), Lausanne, Switzerland Doctor of Philosophy, Computer Science Thesis: "Private and Secure Distributed Learning" Distributed Computing Lab - Rachid Guerraoui	09/2015 - 09/2020
	 National Technical University of Athens (NTUA), Athens, Greece Diploma in Electrical and Computer Engineering (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 	10/2010 - 07/2015 algorithms.
	Computing Systems Laboratory - Nectarios Koziris	
Experience	 Meta (formerly Facebook), London, United Kingdom Senior Machine Learning Engineer (IC5) Machine Learning Engineer (IC4) Working as a Machine Learning generalist on multiple areas related to creating and prodels (data, modeling, offline evaluation, online testing, deployment) in the following field of the evaluation of the commender systems for e-commerce: Working on product ranking for Facebook and Instagram Shops (2021 world cloud global AI conference talk). Language: Python, SQL, C++ Natural language processing for Workplace: Developed solutions for video understanding and personalization (paper [8], 2021 constrained a differentially focusing on the performance evaluation. Implifions as a result of the visibility that this evaluation provided. Language: Hack, SQL, P. IBM, Zurich, Switzerland Research Intern Formally derived and implemented a differentially private optimization algorithm for generics, as part of the core algorithmic component of SnapML. The work continued at EF 	03/2023 - Present 10/2020 - 02/2023 oductionizing deep elds. 06/2021 - Present summit talk, 2022 11/2020 - 06/2021 onversational AI & k, Python, SQL 06/2019 - 08/2019 lemented optimiza- ython 06/2018 - 09/2018 ralized linear mod- PL and led to [7].
	Language: Python <u>Technicolor</u> , Rennes, France Research Intern Designed and implemented a method to boost the evaluation of a new recommender by ex- of a supposedly well-established online recommender, acting as a black-box that the new Published patent PCT/EP19/052345. The work continued at EPFL and led to [4]. Langu	06/2017 - 08/2017 ploiting the output service can query. guage: Python
	Athens Clue, Athens, Greece Web Developer Designed and implemented a web application for an escape room. Language: JavaScript	12/2014 , HTML, CSS

	High School Students, Athens, Greece Tutor 03/2 Provided complementary mathematics, physics, and programming lectures to 8 students who additional help or wanted to go beyond their school curriculum and perfect their skills.	2012 - 06/2015 either needed
Awards	 Best Paper Award, Middleware Best Teaching Assistant Award, EPFL Runner-up for Best Internship Award, Technicolor EDIC PhD Fellowship, EPFL Thomaideio Award for the 3rd best performance among graduates, NTUA Papakyriakopoulos Award for excellence in Mathematics, NTUA 	$\begin{array}{c} 12/2020\\ 12/2019\\ 11/2017\\ 04/2015\\ 2015\\ 2011 \end{array}$
PUBLICATIONS	 [8] "Unsupervised Topic Segmentation of Meetings with BERT Embeddings" A. Solbiati, K. Heffernan, G. Damaskinos, S. Poddar, S. Modi, J. Cali ArXiv, paper, code, video 	06/2021
	 [7] "Differentially Private Stochastic Coordinate Descent" G. Damaskinos, C. Duenner, R. Guerraoui, N. Papandreou, T. Parnell AAAI 2021 and PPML @ NeurIPS 2020, paper, code, video 	12/2020
	 [6] "FLeet: Online Federated Learning via Staleness Awareness and Performance Prediction" G. Damaskinos, R. Guerraoui, A.M. Kermarrec, V. Nitu, R. Patra, F. Taiani Middleware 2020 (best paper award) and ACM TIST 2022 (journal) paper code with ACM reproducibility badges video 	12/2020
	 [5] "DELF: Safeguarding deletion correctness in Online Social Networks" K. Cohn-Gordon, G. Damaskinos, D. Neto, J. Cordova, B. Reitz, B. Strahs, D. Obenshain, P. Pearce, I. Papagiannis 	08/2020
	[4] "The Imitation Game: Algorithm Selection by Exploiting Black-Box Recommenders" G. Damaskinos, R. Guerraoui, E. Merrer, C. Neumann	06/2020
	 [3] "AggregaThor: Byzantine Machine Learning via Robust Gradient Aggregation" G. Damaskinos, E.M. El Mhamdi, R. Guerraoui, A. Guirguis, S. Rouault 	05/2019
	[2] "Asynchronous Byzantine Machine Learning and Systems), paper, code, video [2] "Asynchronous Byzantine Machine Learning (the case of SGD)" G. Damaskinos, E.M. El Mhamdi, R. Guerraoui, R. Patra, M. Taziki	07/2018
	 [1] "Capturing the Moment: Lightweight Similarity Computations" [3] G. Damaskinos, R. Guerraoui, R. Patra ICDE 2017 (IEEE International Conference on Data Engineering), paper, code 	05/2017
Professional Service	 Reviewer: AAAI: [2022, 2021], ICLR [2023, 2022], NeurIPS: [2022, 2021, 2020 (top 10%)], ICML: [2023, 2022, 2021 (expert), 2020 (top 33%), 2019], MLSys: 2019 (external) Project mentor during PhD: 1 PhD semester, 1 MSc thesis, 5 MSc semester, 1 BSc semester, 1 intern EPFL teaching assistant: Distributed algorithms CS-451 (2018, 2019), Real-time systems CS-321 (2018, 2019), Analysis 1 MATH-101 (2016, 2017) 	
Technical Skills (main)	Programming: Python, SQL, Hack, 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	