

Gian Pietro Farina

Software Engineer at Snowflake Inc.

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Working Experience

02/2023-	Software Engineer Snowflake Inc.
	Research and development of Differential Privacy based software
	technology.
01/2020-	Software Engineer LeapYear Technologies Inc.
02/2023	Research and development of Differential Privacy based software technology.
05/2019-	Internship Harvard University
08/2019	Development of a relational symbolic execution engine for R programs for Differential Privacy
01/2019- 05/2019	Long Term Visitor Simons Institute - UC Berkeley Data Privacy: Foundations and Applications
2015-2018	Teaching Assistant University at Buffalo
	Introduction to Programming Languages (2018), Advanced Topics
	in Programming Languages (2017), Differential Privacy (2016), In-
	troduction to Data Mining and Machine Learning (2015)
03/2014-	Penetration Tester Accenture, Prague
12/2014	Experience with OWASP methodology, ESXi, vSphere, Kali, BurpSuite, NESSUS, mimikatz, Wireshark
10/2013-	Information Security Analyst (Internship) LUTECH, Milano
02/2014	Log Analsysis with LogStash, Elasticsearch, Kibana, SNORT, statisti-
	cal Analysys for Behavioural Anomaly Detection
10/2012-	Cryptography Researcher ETH, Zurich
10/2013	Research on Black Box Reductions and Meta Reductions in the Random Oracle Model
01/2012-	Cryptanalysis Researcher Aalto University, Helsinki
08/2012	Implementation of the Block Ciphers PRESENT and Maya and test for
	the statistical saturation attack (SSA) on the Block Cipher PRESENT

Programming Languages and Verification Tools



Education

2015-2020	Doctorate in Computer Science SUNY - University at Buffalo, NY Thesis: Coupled Relational Symbolic Execution for Differential Privacy
2010-2012	Computer Science, Master Degree ($110/110~{\rm cum}$ Laude) Università di Milano Thesis: Distinguishing Distributions Using One-Bit Linear Trails on PRESENT Cipher
2007-2010	Computer Science, Bachelor Degree (110/110 cum Laude) Alma Mater Università di Bologna

Publications

tography (Italian)

Coupled Relational Symbolic Execution for Differential Privacy, ESOP 2021, Relational Symbolic Execution, PPDP 2019, Differentially Private Bayesian Programming - CCS 2016, PrivInfer: A framework for differentially private Bayesian Programming - poster at TPDP 2016, Towards differentially private probabilistic programming - poster at NIPS 2014

Thesis: Automatic Proofs of Classical Results in Computational Cryp-

Interests and Hobbies

Programming Languages Theory and Applications, Verification, Security, Differential Privacy, Testing, Philosophy, Cooking, Football, Arts

May 4, 2025 Gian Pietro