Gian Pietro Farina

Senior Software Engineer **Snowflake Inc.**

i Jan 2, 1988

Perugia, Italy

+39 379 3032255

git https://github.com/gpfarina

farinagianpietro@gmail.com

3072R/E07677EB

Languages

■ Italian

English

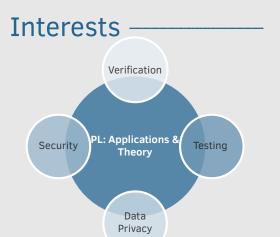


About Me -

I am passionate about software and systems, and I thrive in environments where rigorous thinking and innovation intersect. I take a foundation-first approach: prioritizing deep understanding and thoughtful design before moving to implementation. I enjoy tackling complex problems and contributing to research-driven projects. I hold a PhD in Computer Science with a focus on formal methods for verification of relational properties such as differential privacy. In my free time I enjoy playing guitar, chess, studying philosophy and training Brazilian Jiu-Jitsu.

Soft Skills -

Communication
Teamwork
Problem Solving
Time Management
Helpfulness and Endurance
Endurance



Working Experience

07/2025	gramming and design. Nyā	neer Nyaya OpCo ns and libraries using data-driven pro- ya enables consumers and institutions ility beliefs and goals in all their finan-
02/2023- 04/2025	data platform, enabling but customers. Worked acros	Snowflake Inc. privacy engine into Snowflake's core ilt-in, privacy-preserving analytics for s a Haskell-based backend and Java and Git in a large-scale, production-
01/2020- 02/2023	Software Engineer LeapYear Technologies Inc. Designed and developed a differential privacy-preserving engine in Haskell on top of Spark. Also, built a Python-based system to compute disclosure risk for observations based on historical time series. Experience with pytest, scipy, tensorflow.	
05/2019- 08/2019	Long Term Visitor Harvard University Designed and developed oCaml a relational symbolic execution engine for R programs in oCaml.	
01/2019-	Long Term Visitor	Simons Institute - UC Berkeley
05/2019 2015-2018 03/2014- 12/2014	Teaching Assistant Penetration Tester Experience with OWASP mo	SUNY University at Buffalo, NY Accenture, Prague ethodology, ESXi, vSphere, Kali, Burp- Vireshark
10/2013- 02/2014	Information Security Analy Log Analysysis with LogStasl tical Analysys for Behaviou	n, Elasticsearch, Kibana, SNORT, statis-
10/2012-	Cryptography Researcher	ETH, Zurich
10/2013 01/2012- 08/2012	Cryptanalysis Researcher	Aalto University, Helsinki

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 cum Laude) Università di Milano Thesis: Distinguishing Distributions Using One-Bit Linear Trails on

2007-2010 Computer Science, Bachelor Degree (110/110 cum Laude) Alma Mater Università di Bologna

PRESENT Cipher

Thesis: Automatic Proofs of Classical Results in Computational Cryptography (Italian)

Publications

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