Prof. Dr. Mohammad Ghafari

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Mohammad Ghafari is a Professor of Software Engineering at GIU-Berlin (April 2026–present). Prior to this, he served as a Professor at TU-Clausthal (2022–2026), a Senior Lecturer at University of Auckland (2020–2022), and a Postdoctoral Researcher at University of Bern (2016–2020).

Education

Ph.D. in Software Engineering, Politecnico di Milano (2012–2015).

Research

Mohammad's research focuses on developing tools and techniques that enable developers to adopt secure software engineering practices. His work has received international recognition, reflected in his publication record in leading journals and conferences, as well as his h-index and continued service as a reviewer and program committee member for major venues in Software Engineering.

With more than seven years of experience in the software industry, Mohammad is committed to ensuring the practical relevance and impact of his research. He has collaborated with leading technology companies to translate academic research into real-world software engineering solutions.

Selected Publications

E. Firouzi, M. Ghafari (2026). Can generative AI detect and fix real-world cryptographic misuses?. Journal of Systems and Software.

F. Soltaniani, M. Ghafari (2026). From Data Leak to Secret Misses: The Impact of Data Leakage on Secret Detection Models. In Proceedings of the 33rd IEEE International Conference on Software Analysis, Evolution and Reengineering (SANER).

A. Rahartomo, L. Merino, M. Ghafari (2025). Metaverse security and privacy research: A systematic review. Computers & Security Journal.

E. Ghannoum, M. Ghafari (2025). Poisoned source code detection in code models. Journal of Systems and Software.

A. Kavian, M. Pourhashem, S. Kazemi, E. Firouzi, M. Ghafari (2024). LLM Security Guard for Code. In Proceedings of the 28th International Conference on Evaluation and Assessment in Software Engineering (EASE).

P. Gadient, M. Ghafari, P. Frischknecht, O. Nierstrasz (2018). Security code smells in Android ICC. Empirical Software Engineering.

L. Merino, M. Ghafari, C. Anslow, O. Nierstrasz (2018). A systematic literature review of software visualization evaluation. Journal of Systems and Software.

L. Merino, M. Ghafari, O. Nierstrasz (2018). Towards actionable visualization for software developers. Journal of Software: Evolution and Process.

M. Ghafari, K. Rubinov, M. Pourhashem (2017). Mining unit test cases to synthesize API usage examples. Journal of Software: Evolution and Process.

M. Ghafari, C. Ghezzi, K. Rubinov (2015). Automatically identifying focal methods under test in unit test cases. In IEEE 15th International Working Conference on Source Code Analysis and Manipulation (SCAM).