



# Bernd Malle

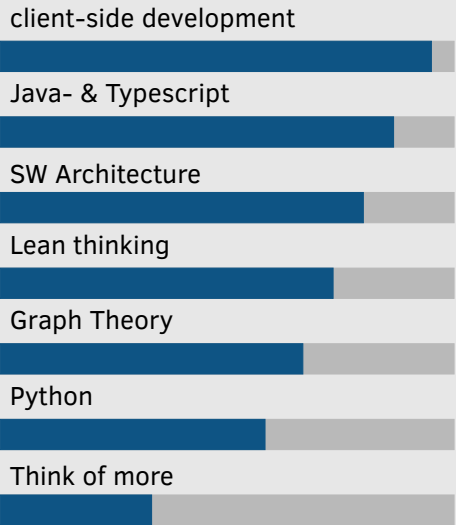
SW Developer

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## About me

Bernd is an enthusiastic Software guy interested in combining client-side (Web) development with algorithmic problem solving. He is currently applying his skills to creating Lemontiger, a next-generation team collaboration tool fueled by a graph-based resource recommender. Although Bernd left his academic work for entrepreneurial challenges, he retained a scientific mind-set and sound, experimental approach.

## Skills



(\*)[The skill scale is from 0 (Fundamental Awareness) to 6 (Expert).]

## Interests

## Education

2016-2018	Ph.D. candidate in Computer Science <i>Research in privacy-aware Machine Learning</i> , ongoing	TU Graz
2014-2016	M.Sc. software engineering Thesis in <i>Graphinius - an online graph exploration platform</i>	TU Graz
2005-2014	B.Sc. software engineering & business administration Thesis in <i>graph extraction from image data</i>	TU Graz
2002-2005	Studies of Economics Special interest in political economics; not graduated	KF University, Graz
1999-2002	Abendmatura @ College of further education Specializing in mathematics and physics.	Graz, Austria
1997-1998	ITCP Information Technology Certified Professional	Wifi Graz

## Publications

2018	(2018) The Need for Speed. Comparison of JS vs. C++ - generated ASM.js / WASM
2017	(2017b) Interactive Anonymization for Privacy aware Machine Learning
2017	(2017) The more the merrier - federated learning from local sphere recommendations
2017	(2017a) Do not disturb? - classifier behavior on perturbed datasets
2016	(2016) The Right to be forgotten. Towards Machine Learning on perturbed knowledge bases

## Conference talks

2017	ECML - European Conference on Machine Learning, Skopje, Macedonia
2017	CD-MAKE - Cross disciplinary ML and Knowledge Extraction, Reggio Calabria, Italy
2017	ARES - Conference on Availability, Reliability and Security, Reggio Calabria, Italy
2017	Security Forum Hagenberg, Linz, Austria
2016	ÖGAI (Austrian society for AI) Meeting , Klagenfurt, Austria
2016	ARES - Conference on Availability, Reliability and Security, Salzburg, Austria

## Experience

2016-2018	Member of the Austrian KIRAS funded project Darknet.	Project
2015-2018	Employee at Secure Business Austria (SBA) Research GmbH, Vienna, Austria	Job
2016-2017	Supervised 2 BSc. theses and 1 MSc. project	Supervision
2015-2016	Initiated Project Graphinius: An online graph exploration and analysis platform	Project
2014-2018	Member of the HCI-KDD research group at Medical University Graz, Austria.	Research



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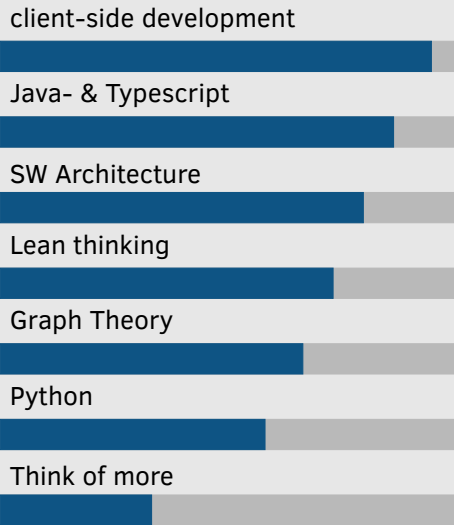
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## Other information

### Review

Bernd graduated in Software Development with a MSc. Thesis on Graphinius – an online graph exploration and analysis platform at Graz University of Technology, supervised by Prof. Dr. A. Holzinger. He participated in 2 software-related research projects so far (one of which he initiated) and has contributed Web based software for graph extraction from (skin cancer) images as well as a generic graph computation and analysis library for real-time computations inside a Browser. This work was supplemented by his commitment to supervise a Masters project in web-based 3D graph visualization as well as a Bachelor thesis in applying Graphinius to the simulation of neurological processes. Bernd also recognizes the importance of human-in-the-loop approaches to data mining tasks and is therefore concerned about finding ways to visualize high-dimensional data structures for intuitive user understanding, currently within research experiments about interactive anonymization. Rounding off his academic curiosity, Bernd is always interested in packaging his insights into usable, web-based, Software.

### \* References

Malle, B., Giuliani, N., Kieseberg, P., & Holzinger, A. (2017). The more the merrier - federated learning from local sphere recommendations. In A. Holzinger, P. Kieseberg, A. M. Tjoa, & E. Weippl (Eds.), *Machine learning and knowledge extraction* (pp. 367–373). Cham: Springer International Publishing.

Malle, B., Giuliani, N., Kieseberg, P., & Holzinger, A. (2018, February). The Need for Speed of AI Applications: Performance Comparison of Native vs. Browser-based Algorithm Implementations. *arXiv e-prints*.

Malle, B., Kieseberg, P., & Holzinger, A. (2017a). Do not disturb? classifier behavior on perturbed datasets. In A. Holzinger, P. Kieseberg, A. M. Tjoa, & E. Weippl (Eds.), *Machine learning and knowledge extraction* (pp. 155–173). Cham: Springer International Publishing.

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Malle, B., Kieseberg, P., Weippl, E., & Holzinger, A. (2016). The right to be forgotten: Towards machine learning on perturbed knowledge bases. In F. Buccafurri, A. Holzinger, P. Kieseberg, A. M. Tjoa, & E. Weippl (Eds.), *Availability, reliability, and security in information systems* (pp. 251–266). Cham: Springer International Publishing.