



Marcelo De Barros is currently the Principal Group Engineering Manager for the Bing UX Features and Shared Tools team at Microsoft Corporation, in Redmond, WA, USA. Marcelo holds a M.Sc. degree in Computer Science by the University of Washington (USA) and a B.S. degree in Computer Science by UFPE (Universidade Federal de Pernambuco, Brazil). Since 1999 Marcelo has worked at Microsoft in multiple engineering roles primarily focusing on highly scalable services and machine learning research and development. Before joining Microsoft in 1999, Marcelo participated in numerous ACM Collegiate Programming Contests, being ranked second place in the South America regionals in 1997 and 1998, and participating in the ACM Programming Contest World Finals in 1999.

Marcelo has published and contributed to a number of papers and scientific articles, as well as spoken in multiple international conferences. Some examples of the papers and talks written (or contributed) and given by Marcelo:

- Rule Extraction from Boolean Artificial Neural Networks, IEEE 1999 (<http://ieeexplore.ieee.org/iel5/6674/18002/00833457.pdf>)
- Effective use of production environments for quality improvements of large-scale online services, Microsoft ThinkWeek, September 2007
- Web Services Wind Tunnel: On Performance Testing Large-scale Stateful Web Services, IEEE 2007 (presented at the DSN 2007 (<http://www.dsn.org/>))
- Randomly Selecting Rows from a BIG Table, SQL Magazine, June 2007
- Building the Next Commerce Platform Datacenter Upon Windows Server Virtualization, Microsoft ThinkWeek, February 2008
- Application of Machine Learning to Quality Assurance Problems, Microsoft Engineering Excellence Forum, June 2011
- How can we use Machine Learning to Software Testing?, Microsoft Practice of Machine Learning Conference, March 2014
- Agile quality-centric development process of large-scale web systems, Swiss Testing Day 2014, Zurich, Switzerland, March 2014

Since 2015 Marcelo has been contributed significantly to the IARIA conferences:

- An Application of Stochastic Models To Monitoring of Dynamic Web Services, IARIA Service Computation 2015 (awarded best paper)
- Applications of Machine Learning to Software Testing, IARIA Service Computation 2015 (tutorial)
- Modern Engineering Principles for Large Scale Teams and Services, IARIA Service Computation 2015 (tutorial)

- Architecture, Development Model and Future Trends of Web Search Engines, IARIA Cloud Computing 2016 (Keynote)
- Standardization Challenges in Cloud and Services-oriented Approaches, IARIA Cloud Computing 2016 (Panel)

Marcelo holds over 20 software patents in multiple areas around machine learning, performance and service security.

He is also an avid programmer maintaining an active blog on coding, math and algorithm curiosities (<http://anothercasualcoder.blogspot.com/>)