Dominik Moritz

PhD student in Computer Science & Engineering at the University of Washington

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Languages

German native
English proficient

Programming

Python, C++, Java,
JavaScript, Go,
Smalltalk,
CSS3 & HTML5

Systems, Frameworks & Techniques

Git, Linux, LATEX,
PostgreSQL, Protobuf,
Qt, TDD, Testing,
Prototyping

Research Interests

My goal is to use a combination of **large-scale systems for data analysis and sophisticated interactive visualizations** to support novel insights and fast exploration of multi-dimensional data. My efforts are leading to systems that extract patterns, detect anomalies, and find root causes of anomalies. The results of this analysis can be explored with interactive visualizations that provides feedback to the system.

Education

since 2013	**PhD student** Computer Science & Engineering	University of Washington, Seattle, WA

Advised by Bill Howe and Jeffrey Heer.
Research focus on distributed database systems and interactive data visualization.

2010–2013	**Bachelor of Science** IT-Systems Engineering	Hasso-Plattner-Institute, Potsdam, Germany

Bachelor's thesis: *Algorithms for the Visualization of Software System Evolution*.
GPA: 4.0 (1.0 in German system)
Advanced classes on database implementation, visualization algorithms, and logic.

Awards

2013-2014	**Fulbright Scholarship**	Bureau of Educational and Cultural Affairs, USA

Highly competitive, merit-based grant for international educational exchange for students, scholars, teachers and scientists.

since 2010	**Studienstiftung des Deustschen Volkes**	Studienstiftung, Bonn, Germany

The *German National Academic Foundation* grants prestigious scholarships to students of outstanding academic achievements.

2013	**Hasso Plattner scholarship**	Hasso Plattner Institute, Potsdam, Germany

Awarded for excellent academic performance during undergraduate studies.

Experience

2014	**Google**	New York City, USA

Software Engineering Intern
Developed new algorithms for large scale production monitoring system to support more complex queries.
Algorithm design, large scale software development, profiling, C++.

2012–2013	**Open Knowledge Foundation**	London, UK

Intern and Developer
Two-month summer internship and subsequent one-year involvement in development and training for CKAN, a data portal software used by data.gov among many others.
Distributed teams, agile development methods, large legacy systems, Python

Publications

Demonstration of the Myria Big Data Management Service
Daniel Halperin, Victor Teixeira de Almeida, Lee Lee Choo, Shumo Chu, Paraschos Koutris, Dominik Moritz, Jennifer Ortiz, Vaspol Ruamviboonsuk, Jingjing Wang, Andrew Whitaker, Shengliang Xu, Magdalena Balazinska, Bill Howe, Dan Suciu
2014 ACM SIGMOD International Conference on Management of Data, 2014, Snowbird, Utah, USA

Visualization of Varying Hierarchies by Stable Layout of Voronoi Treemaps
Sebastian Hahn, Jonas Trümper, Dominik Moritz, Jürgen Döllner
5th International Conference on Information Visualization Theory and Applications (IVAPP 2014), 2014