Contact

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Languages

German mother tongue English proficient

Programming

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

Systems, Frameworks & Techniques

Git, Linux, 上下上X, PostgreSQL, Protobuf, Qt, TDD, Testing, Prototyping

Research Interests

My goal is to use a combination of **large-scale systems for data analysis and sophisticated inter-active 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 out-

standing 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