Timur Alperovich

CONTACT
INFORMATION

- *E-mail:* timur@timuralp.com

PROFESSIONAL
EXPERIENCE

SwiftStack

Senior Software Engineer   **November 2015 - present**

Primary designer and developer of the SwiftStack Hybrid Cloud and Metadata Search offerings. Hybrid Cloud allows SiwftStack customers to integrate their on-premises data storage with public vendors, such as Google and Amazon. Metadata Search enables customers to index and find data in their object stores by name or arbitrary metadata associated with each object.

Early on, I also lead the IPv6 support effort within the SwiftStack product. As part of SwiftStack, I've also made contributions to OpenStack Swift (and swiftclient), Fog, jclouds, and boto (among other projects). I've also made a brown bag talk on Metadata Search and presented at the OpenStack summit about Hybrid Cloud.

Bounce Storage

Member of Technical Staff   **February 2015 - October 2015**

Contributed in all engineering aspects of Bounce. Namely: implemented the first iteration of the policy engine; implemented the Bounce configuration REST API; helped build the OpenStack Swift front-end; implemented the second iteration of the Bounce UI. Helped with some of the Bounce outbound activities in sourcing customers and investors.

EMC

Principal Software Engineer   **October 2014 - January 2015**

Worked on profiling and improving end-to-end Maginatics file system performance.

Maginatics (acquired by EMC)

Senior Software Engineer   **July 2013 - October 2014**

Designed and implemented point-in-time file system snapshots with one other engineer (critical for the company and customers). Designed and provided a reference implementation of a service-oriented architecture. Participated in resolving customer support cases. I also developed tools for the QA engineers to improve testing efficiency.

Software Engineer   **May 2012 - July 2013**

Implemented high availability for the Maginatics file system. The feature was critical to the first customer and implemented on a two week schedule. Implemented a horizontally scalable architecture.

Microsoft Corporation

Software Development Engineering Intern   **Summer 2008**

I worked on analyzing the security of Windows Messenger. I created a messenger proxy to be used for the purpose of fuzzing messenger clients.

EDUCATION

University of Michigan (advisor: Brian Noble)

M.S., Computer Science, May 2010 (left the PhD program in April, 2012)
Worked on wireless networking, passive network measurements, mobile systems.

University of Massachusetts Amherst

B.S., Computer Science, May 2008; B.S., Physics, May 2008

OPEN SOURCE
CONTRIBUTIONS

Check out my github and openhub accounts for my open source work.

SELECTED PUBLICATIONS	Intentional networking: opportunistic exploitation of mobile network diversity Brett D. Higgins, Azarias Reda, *Timur Alperovich*, et al. MobiCom 2010 (Conference on Mobile Computing and Networking) The Case for Elastic Access *Timur Alperovich* and Brian Noble MobiArch 2010 (Workshop on Mobility in the Evolving Internet Architecture)
LANGUAGES & FRAMEWORKS	Python, Ruby, Java, C, JavaScript (cursory), C++ (less recently). Familiar with Django, Rails, jclouds, Fog, ZooKeeper.