

**SUMMARY** Full-stack engineer with experience in cloud storage, networking, and distributed systems. Interested in entrepreneurship and customer-facing opportunities.

**PROFESSIONAL EXPERIENCE** **SwiftStack** *Senior Software Engineer – Python/Django* November 2015 - present

- Technical lead and initial developer of 1space, an inter-cloud object management product
- Implemented Amazon S3, Google Cloud Storage, and Microsoft Azure Blob support, including enhancements to vendor SDKs
- Grew the team, worked with product management, and engaged with customers
- Designed and implemented the Metadata Search offering, integrating Swift with Elasticsearch

**Bounce Storage** *Member of Technical Staff – Java* February 2015 - October 2015

- First employee at the multi-cloud startup
- Contributed to the core policy engine, implemented web UI, helped build OpenStack Swift front-end, and implemented the configuration REST API
- Helped with outbound activities in sourcing customer and investors

**Maginatics** *Senior Software Engineer – Ruby/Rails, Java, C++* July 2013 - January 2015  
(acquired by EMC)

- Co-designed and implemented file system snapshots, unblocking several customers
- Participated in resolving customer support cases
- Developed tools for the QA engineers to improve testing efficiency

**Maginatics** *Software Engineer – Ruby/Rails, Java* May 2012 - July 2013

- Implemented high availability for the MagFS, critical to signing the first customer
- Implemented initial horizontal scale-out of the file system

**OPEN SOURCE WORK**

- Contributed to Boto, fog, jclouds, OpenStack Swift, rails, S3Proxy, SwiftProxy, and urllib3
- Author of GlacierProxy, railgun, and swift-jpeg-meta; maintainer of docker-swift
- GitHub: [timuralp](https://github.com/timuralp)

**TALKS AND PUBLICATIONS**

- [Hybrid Cloud Storage with OpenStack Swift](#) (2017)
- [Metadata search: Finding a needle in a haystack with OpenStack Swift](#) (2016)
- Intentional Networking: opportunistic exploitation of mobile network diversity (2010)

**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, and mobile systems

**University of Massachusetts Amherst**  
B.S., Computer Science, May 2008; B.S., Physics, May 2008