

# Andy Gross

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## Summary

I'm a recognized expert on distributed systems, databases, and cloud architectures with over 15 years of experience building world class products, services, and engineering teams. I am the primary author of Riak, an influential and commercially successful NoSQL database. I'm seeking technology/product leadership and founder opportunities at venture funded startups.

## Experience

### Opsee

San Francisco, CA

*Co-founder and CTO*

2/2015–7/2015

A developer-oriented monitoring company founded with friends. I brought investors into our 1.5MM seed round, hired the initial engineering team, and led implementation of the MVP product.

### Twitter

San Francisco, CA

*Staff Software Engineer, Core Storage*

3/2014–2/2015

I was a technical lead for Manhattan, Twitter's self-serve internal DBaaS, and other projects in the Core Storage group.

- o Implemented a distributed rate limiting and admission control system based on control theory to prevent cluster overload.
- o Authored an integration testing tool to automate verification of cluster inv ariants and correctness checking.
- o Wrote a dynamic configuration framework for Manhattan, allowing system configuration to be changed at runtime.

### Basho Technologies

San Francisco, CA

*Chief Architect, VP of Engineering*

12/2007–3/2014

I authored Riak, Basho's flagship product. I defined the technical and product direction as we grew the company from four to 140 employees in San Francisco, Cambridge, Herndon, London, and Tokyo.

- o Authored initial versions of all Basho Open Source and Enterprise software (Riak, RiakCS, Riak Enterprise Replication).
- o Built engineering team, participated in fundraising, closed deals with Fortune 50 companies (Apple, Comcast, AT&T, Verizon, State Farm).
- o Presented at conferences on distributed systems, lectured at Berkeley and Stanford on distributed systems in industry.

### Mochi Media

San Francisco, CA

*Senior Systems Architect*

5/2007–12/2007

I was hired as employee #3. I helped secure funding from Accel and rewrote MVP infrastructure (messaging, monitoring, DevOps tools) to handle post-launch growth. I left to start Basho with Akamai colleagues.

### Apple

Cupertino, CA

*Distributed Systems Engineer, Developer Tools*

9/2005–5/2007

I was recruited onto the Xcode team to write a distributed compiler to speed up build time for Apple's largest third party developers (Adobe, Microsoft).

- o Designed and implemented a distributed filesystem (see Patents and Publications).
- o Maintenance and feature development for the Xcode build system.
- o Presented work at WWDC 2006.

### Akamai Technologies

Cambridge, MA

*Senior Software Engineer, Government and Custom Engineering, Systems Engineering*

7/1999–9/2005

Employee #75. I was hired to carry 21" CRT monitors for new hires, and left as a Senior Engineer leading design and development of custom high-margin products for the US Government.

- o Implemented a reactive overlay network for a government customer that became the basis for Akamai's highly profitable IP acceleration products.
- o Created an analytics application aggregating IDS, BGP, and performance data for the US Intelligence Community.
- o Developed Akamai Content Storage, the distributed storage system backing the initial Apple iTunes Music Store launch.

## Patents and Publications

Bumgarner, William, Adam Swift, and Andrew Gross (2012). "MIRRORED FILE SYSTEM". US8286127 B2.

Gross, Andrew R. (2012). "The Architecture of Open Source Applications". In: vol. i. Chap. Riak and Erlang.

## Education

### University of Connecticut

Storrs, CT

*Management, Finance,*

1996–1999

Left to take pre-IPO position at Akamai