

Andrew Gaul

Systems programmer interested in entrepreneurship and leadership opportunities in San Francisco and Tokyo.

Work experience

DeepStructure, Head of Engineering (2024–2025)

- Led a team of five to create a TypeScript platform for building, deploying, and monitoring AI applications
- Re-organized team from path-finding to reliable sprint-based execution against customer opportunities
- Focused product on customer-facing initiatives: Agents, AWS Bedrock, Google Drive, MCP, and Slack

Google Japan, Senior Software Engineer (2019–2024)

- Managed a team of seven to improve page experiences across the web ecosystem
- Managed a team of five to enable explicit personalization and quicker implicit personalization in Discover
- Technical lead for a Chrome UKM-based mobile experience classifier and search ranking signal
- Evaluated and evangelized a search ranking signal to demote pages with excessive visual clutter and ads
- Received a Search tech impact award for helping reduce page load latency by 1,000 years per quarter

Bounce Storage, CEO and Co-founder (2014–2015)

- Created a hybrid object store for managing data spanning different clouds and geographies
- Implemented protocol translator comprised of an S3 frontend and an enhanced Apache jclouds backend
- Led outbound efforts including pitching to investors, sourcing customers, and presenting at conferences

Maginatics, Staff Engineer (2013–2014), Senior Engineer (2011–2013)

- Founding engineer for MagFS 1.0-2.6, a cloud-based file system which became EMC CloudBoost
- Lead developer of object data storage, SQL metadata, deduplication, garbage collection, and snapshots
- Fixed MySQL concurrency and space-efficiency issues and contributed to upstream projects
- Mentored engineers, supervised contractors, and interacted with customers, investors, and partners

Riverbed Technology, Member of Technical Staff (2006–2011)

- File system engineer for Atlas 1.0, a deduplicating storage appliance which became NetApp AltaVault
- Implemented algorithms and data structures for efficient indexing and storage of compressed data
- Improved performance and space-efficiency of data deduplication, garbage collection, and snapshots
- Storage engineer for SteelFusion 1.0, a virtualized, WAN-optimized iSCSI storage appliance
- Contributed to core indexing structures, transactional persistence of data, and overall performance
- Established dogfood setup, managed initial customer deployments, and evangelized failure-injection testing

Free software

- Apache jclouds committer, PMC member (2013–2025), and Vice President (2016–2017, 2021–2025) - implemented the Backblaze B2 API and mentored Google Summer of Code students (2014, 2017)
- s3fs committer (2019–present) - accelerated readdir, rename, and write performance by 2-5x, addressed data loss issues, and improved POSIX compatibility, S3 interoperability, testing, and documentation
- Author of Chaos HTTP Proxy, Java httpbin, JDBC lint, Modernizer Maven Plugin, S3Proxy, and x86lint
- Contributed to compy, Firefox, gcsfuse, goofys, innodb_ruby, OpenSSH, s3-tests, Thrift, and more
- Speaker at ApacheCon, Linux.conf.au, Ohio LinuxFest, and Open Source Summit

Education

University of Texas at Austin, BS Computer Sciences (1997–2002)

- Received an honorable mention at the 2001 ACM International Collegiate Programming Contest
- Basic Japanese language proficiency (JLPT N4, 2022)