

Basil Crow

- CONTACT Basil Crow me@basilcrow.com
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North Providence, RI 02911-1402 (401) 359-3677
- OBJECTIVE A full-time position as a *software engineer* at a world-class technology company starting January 2012.
- EDUCATION **Brown University, Sc. M., Computer Science.** (Jan. 2011–Dec. 2011)
Brown University, Sc. B., Computer Science. (completed Dec. 2010)
- *Operating Systems*: Implemented the UNIX System V filesystem.
 - *Networks*: Implemented TCP/IP with congestion avoidance and a system for tunneling IPv4 data through a DNS server.
 - *Special Topics on Networking and Distributed Systems*: Implemented improvements for cross-datacenter replication in the Cassandra database system.
 - *Programming Languages*: Implemented stop-and-copy garbage collection and type inference.
 - *Compilers*: Implemented parts of a compiler for an ML-like language.
 - *Distributed Systems*: Implemented a copy-on-write file system using a distributed hash table for object storage and an event queue for synchronous update management.
 - *Software System Design*: In collaboration with seven others, worked with clients to add major features to an existing large web application.
 - *Database Management Systems*: Implemented B⁺-tree indexing and database concurrency.
- EXPERIENCE **Delphix Corp., MTS Intern**, Summer 2011. Menlo Park, CA
- Implemented support for fine-grained versioning of on-disk format changes in ZFS (a combined file system and logical volume manager).
 - Extended Solaris kernel, userland ZFS administration tools, and GRUB boot loader.
 - In process of pushing changes to Illumos open source project.
- Department of Computer Science, Brown University.** Providence, RI
- *Teaching Assistant* for Operating Systems, September 2011–present.
 - *Sun Lab Consultant*: Departmental systems support, September 2008–present.
- Joyent, Inc., Support**, March 2007–January 2008. San Francisco, CA
- Provided technical support for shared and dedicated web hosting on FreeBSD and Solaris.
 - Resolved approx. 1,000 tickets concerning web application deployment and mail delivery.
- SKILLS *Languages*: Proficient in C and Java. Familiar with C++, Python, JavaScript.
Frameworks: Boost, POSIX Threads, Win32 API, Pylons, jQuery.
Software: VMware vSphere, Apache, nginx, Lighttpd, MySQL, Postfix.
Operating systems: Solaris, FreeBSD, Debian GNU/Linux, Mac OS X.
- INTERESTS Byzantine chant performance and composition, digital typography.