

DIEGO ONGARO

*Contact information has been omitted from this version due to privacy concerns.
Please visit <http://ongardie.net/diego/> instead.*

Education

- **Stanford University**—Stanford, CA
Ph.D. Candidate in Computer Science: 2009–present
 - Advisor: John Ousterhout
 - Coursework: Algorithms (CS161), Databases (CS245), Operating Systems (CS240)
- **Rice University**—Houston, TX
Bachelor of Arts in Computer Science: 2006–2009
 - Graduated Cum Laude with a GPA of 3.80 on a 4.33 scale
 - Coursework: Operating Systems, Compilers, Network Systems Architecture
- **The Academy of Science and Technology, CISD**—Conroe, TX

Honors/Awards

- Stanford School of Engineering Fellowship (2009-2010)
- Louis J. Walsh Scholarship in Engineering (2009)
- Rice President's Honor Roll (2006-2008)
- Rice Trustee Distinguished Scholarship (2006-2009)
- National Honor Society (2006)
- Scholar in the National Hispanic Recognition Program (2006)
- Conroe ISD Distinguished Achievement Scholar (2006)

Research Experience

- **RAMCloud (Low-Latency Datacenter Storage)**—Stanford University
With John Ousterhout, et al: 2009–2010
 - Contributed to the overall system design, especially the cluster management, indexes, and transactions aspects.
 - Developed prototype for transactions subsystem, initial version of indexes, TCP-based RPC implementation, misc contributions.
- **Virtualized I/O Performance**—Rice University
With Alan L. Cox and Scott Rixner: 2007–2008
 - Analyzed and improved Xen's architecture for CPU scheduling and network I/O.
 - Developed microbenchmarks to simulate CPU-intensive, bandwidth-intensive, and latency-sensitive applications.
 - Eliminated scheduling unfairness for virtual interrupts. This patch was adopted by Xen's developers.
 - Measured and analyzed the impact of several optimizations to the CPU scheduler.

Work Experience

- **Citrix Systems R&D**—Cambridge, UK
Software Engineer Intern: Summer 2008
 - Developed and evaluated several solutions for a critical networking-related issue with Linux drivers for the Xen virtual machine monitor. Selected the solution that scaled best for inclusion in the XenServer product.
 - Developed a set of modifications throughout Xen’s components to isolate the core XenStore daemon into a dedicated, unprivileged virtual machine. These changes are queued for inclusion in the open source Xen project.
- **Essential Technology Solutions, LLC**—The Woodlands, TX
Developer: 2004–2008
 - Developed major enhancements to CRM software based on open-source XRMS project.
 - Developed fixes for customer issues and contributed them upstream to XRMS.
 - Created the company’s strategy for Linux-based server management.
 - Developed a custom web application to manage manufactured units and their associated issues.
 - Customized and integrated wiki software based on MoinMoin.
 - Customized issue tracking software solution based on ZenTrack.

Open Source Experience

- **Xfce Desktop Environment**—www.xfce.org
Contributor: 2007–present
 - Developed and maintained the `xfce4-places-plugin`, a plugin for Xfce’s panel that provides a menu for access and management of filesystem locations, removable media, and recent documents, <http://goodies.xfce.org/projects/panel-plugins/xfce4-places-plugin>.
 - Maintained the `xfce4-datetime-plugin`, a plugin for Xfce’s panel that provides a clock and calendar, <http://goodies.xfce.org/projects/panel-plugins/xfce4-datetime-plugin>.
 - Contributed improvements to Xfce’s panel plugin API.
- **XRMS Customer Relationship Management System**—www.xrms.org
Core Developer: 2005–2007

Publications

- J. Ousterhout, P. Agrawal, D. Erickson, C. Kozyrakis, J. Leverich, D. Mazières, S. Mitra, A. Narayanan, D. Ongaro, G. Parulkar, M. Rosenblum, S. M. Rumble, E. Stratmann, and R. Stutsman, A Case for RAMClouds: Scalable High-Performance Storage Entirely in DRAM. Submitted to *Communications of the ACM*, 2010.
- Diego Ongaro, Alan L. Cox, and Scott Rixner, Scheduling I/O in Virtual Machine Monitors. *The International Conference on Virtual Execution Environments (VEE)*, Seattle, WA, 2008.