AMIT ARYEH LEVY

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EDUCATION

University of Washington, Seattle, WA
Master of Science, Expected December 2010
Computer Science
GPA 3.77

University of Washington, Seattle, WA
Bachelor of Science, August 2009
Computer Science, Economics
GPA 3.64

PUBLICATIONS

Comet: An Active Distributed Key-Value Store.
Roxana Geambasu, Amit Levy, Tadayoshi Kohno, Arvind Krishnamurthy, Henry M. Levy. In Proceedings of the USENIX Symposium on Operating Systems Design and Implementation (OSDI), Vancouver, Canada, October 2010.

Vanish: Increasing Data Privacy with Self-Destructing Data.
Roxana Geambasu, Tadayoshi Kohno, Amit Levy, Henry M. Levy. In Proceedings of the USENIX Security Symposium, Montreal, Canada, August 2009. Won the **Outstanding Student Paper Award**.

WORK EXPERIENCE

Research Assistant	UW Computer Science, Seattle, WA	January 2009 - Present
Software Engineer	Google, Seattle, WA	Summer 2010
Software Engineer in Test	Google, Mountain View, CA	Summer 2008
Software Developer	Grameen Foundation, Seattle, WA	Summer 2007
Teaching Assistant	UW Computer Science, Seattle, WA	March 2007-December 2009

PROJECTS

Cluster Workload Characterization
At Google, I focused on building tools to help increase cluster utilization. I defined a metric that accurately and predictively describes an applications resource consumption given the cluster it runs on, and built tools to report this metric in real-time.

Comet
Today's peer-to-peer and datacenter storage services impose a uniform policy for storage properties, e.g., replication, lifetime, and consistency. I built and evaluated Comet, an extensible distributed key-value storage service that enables application-specific customizations of these properties.

Vanish
Users of current Web applications must relinquish control over when their data is deleted from third-party services. Vanish protects the privacy of past, archived data against accidental, malicious, and legal attacks by ensuring that all copies of data become unreadable after a user-specified time. I implemented the browser plugin that serves as a front end to Vanish as well as a cross platform installer.

Undergraduate/Graduate Projects

As an undergraduate student and later a masters student I worked on several quarter-long course projects. These included a compiler for decision trees, a system for concise visual representation of social networks, a distributed queue, and a distributed hash table.

TEACHING

Introduction to Programming II Spring 07, Summer 07, Fall 07, Winter 08

I led sections of 20 students twice a week, tutored students in Introductory Programming Lab, and graded homeworks and exams.

Web Programming Spring 08

I led lab exercises twice a week, helped write code for several of the assignments and gave a lecture on relational databases and SQL to a full class of over 150 students.

Programming Languages Fall 08, Winter 09

I led a section of 20 students once a week and graded homeworks and exams. I also wrote the prompt, grading criteria, and boiler-plate code for the final assignment of winter quarter.

HONORS AND AWARDS

Outstanding Student Paper Award for Vanish - USENIX Security Symposium 2009
Madrona Prize Runner-Up - 2009 (for Vanish), 2010 (for Comet)
1st place Pacific Rim Collegiate Cyber Defense Competition - 2009, 2010
Invited to join Omicron Delta Epsilon (International Economics Honors Society)
Annual Dean's List - 2006/7, 2007/8, 2008/9
Louis Armstrong Award 2005, from Mercer Island High School Jazz Band
2nd & 3rd places USRowing Youth National Championship (Rowing) - 2004, 2005