

Objective To leverage my blend of technical and business skills to create groundbreaking consumer-focused products that matter.

Selected Experience **Microsoft** **August 2006 - Present** **Redmond, WA**
Program Manager – SQL Server Hosting Team

- Led a team that delivered a database migration tool for SQL Server suitable for hosting providers and their customers that has been downloaded tens of thousands of times. Designed all UI flows and APIs. Performed key pieces of the implementation, did code reviews, wrote unit tests, did all release work, and managed external processes.
- Drove processes for the database migration tool that led to inclusion of the functionality in several shipping Microsoft products. Also, drove adoption of tool by external hosting providers.
- Developed deployment and configuration guidance in conjunction with partners suitable for SQL Server in shared hosting environments.

Microsoft **June 2004 – August 2006** **Redmond, WA**
Program Manager – WinFS Applications Team

- Drove the vision and development of numerous applications and prototypes used to both illustrate the value propositions of WinFS and provide tangible end-user benefits. Acted as the main engine for driving technical feedback from these results back into the platform.
- Personally architected, implemented, and tested key portions of every application delivered from the team. Gained stature on the WinFS team as an expert in how to build applications on top of WinFS.
- Led and participated in multiple working groups that helped to define and solidify the business vision and technical implementation of WinFS, including investigations into target application scenarios, server scenarios, information model, API and query language, and performance optimizations.
- Owned the business and technical competitive analysis for WinFS. In this capacity, performed in-depth analyses on many competitors in both consumer and business segments and presented results to executives and other key decision makers within Microsoft.
- Produced significant portions of the deliverables used at PDC 05 for WinFS. Created the WinFS hands-on lab, which was one of the most widely used and best rated labs of PDC. Worked with internal team and external company to create demos used in multiple WinFS sessions and presented at sessions.

Amazon.com **Summer 2003** **Seattle, WA**
Software Development Engineer Intern – Automated Sponsored Link Group

- Developed patent-pending NLP algorithm designed to extract key, descriptive phrases and words from a document corpus. With this technique, built a prototype of a system that automatically generates sponsored link ads for products within the Amazon catalog.
- Refactored Amazon's automated sponsored-link bidding engine to incorporate syntactic and other keyword characteristics, resulting in higher click-through. In addition, significantly increased scalability of the system through redesign.

MIT Lab for Computer Science **Summer 2002** **Cambridge, MA**
Undergraduate Research Assistant – Programming Methodology Group

- Conceptualized, architected, and implemented a highly reliable Internet mail service accessible via the SMTP and POP3 protocols, utilizing the BFT/BASE state machine replication protocol as a platform technology.
- Utilized this software as a proof of concept on the viability of Byzantine state machine replication protocols in real world applications as an alternative to standard methods of achieving high availability.

Centrata **March 2000-March 2002** **Redwood Shores, CA**
Co-Founder and Principal Member of Technical Staff

Centrata is an early-stage enterprise software startup funded by renowned venture capital firm Kleiner, Perkins, Caufield and Byers and supported by Vinod Khosla focused on solving the management problems in service provider and enterprise data centers.

- Gained theoretical knowledge of and applied experience with distributed algorithms and systems, enterprise information systems, legacy application integration, three-tiered application programming, and application deployment infrastructure
- Designed, developed, and presented to customers a live, working demonstration of our data center operating system product built upon J2EE technologies. Participated in creation of product and architecture documentation leading directly to initial customer acquisition
- Mapped customer driven high-availability requirements (99.999%) to low-level software and hardware component requirements, designed a production lab to test the product, and provided input to engineering team when components jeopardized the HA requirement.
- Envisioned and designed CODA, a framework for data aggregation and synchronization across legacy and modern enterprise information systems utilizing several J2EE constructs that is currently shipping in Centrata's flagship DCOS product.

- Conceived, designed, and developed MARMOT, a modular, flexible, and lightweight message-passing framework for one-to-one and one-to-many messaging and utilized it to enable Centrata's proprietary group discovery algorithms

Patents
Pending

- "System and method for displaying related entity information," filing pending
- "Creation and composition of sets of items," filing pending
- "Method and system for identifying keywords for use in placing keyword-targeted advertisements," filed 9 August 2004.
- "Method and system for generating and placing keyword-targeted advertisements," filed 30 December 2003.

Education

Massachusetts Institute of Technology

1999-2003

Cambridge, MA

- Bachelor of Science in Computer Science and Engineering, June 2003. *GPA: 4.8 on a 5.0 scale*
- Coursework includes: *Computer Networks, Computer and Network Security, Algorithms, Signals and Systems, Circuits and Systems, Computation Structures, Laboratory in Software Engineering, Law and Policy on the Internet*

Personal

- Born and raised in Houston, Texas. Enjoys snowboarding, traveling, photography, technology, lifting weights, running, and playing sports.