ADRIAN BOZDOG

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Profile

A self-starter and team player with solid scientific background in computer science. Worked directly as consultant, developer, researcher and system designer. Involved in project life cycle from development planning to project execution. Acquired knowledge in financial derivative securities.

Education

CORNELL UNIVERSITY, ITHACA, NY

- PhD, Computer Science, GPA 3.96, expected May 2004
  PhD thesis objective: building an application level routing infrastructure to improve the performance, scalability, and manageability of Internet applications that use bulk transfers, such as video streams.
- MSc, Computer Science, December 2001
- Minor in Finance with focus on financial derivative securities, December 2000

POLITEHNICA UNIVERSITY OF BUCHAREST, ROMANIA

- Honors BSc, Computer Science, GPA 9.91/10.0, June 1998

Experience

CORNELL UNIVERSITY, ITHACA, NY: *Research Assistant*

2003 – 2004

- Designed and implemented an elegantly combined peer-to-peer protocol that supports aggregation queries on machine attributes, dynamic hash table lookups, all-to-all message distribution, and publish-subscribe functionalities.
- Designed and implemented an application level routing infrastructure that out-performs existing network level multicast protocols. The infrastructure is well suited for bulk transfers, such as audio and video streams. With this infrastructure enterprises can run, between multiple data centers, multicast applications designed to work within a single data center without modifying the applications.

2000-2003

- Designed and implemented a scalable and self-repairing application-level system for disseminating messages through the Internet. Investigated new techniques for improving the performance of content distribution networks that provide web pages to Internet users.

1999

- Designed a framework capable of executing periodically repeating, pipelined tasks efficiently on a cluster of computers, useful for financial calculations on continuous streams of data.

1999-2004

CORNELL UNIVERSITY, ITHACA, NY: *Teaching Assistant*

- Taught and led student groups to implement small operating systems.
- Supervised research projects focused on database systems, specifically some data mining and resource management algorithms.
- Designed, taught, and assisted with 6 courses from undergraduate to graduate levels, in both computer science and business.

2001

RELIABLE NETWORK SOLUTIONS: *Software Development*

- Worked on the design of TestZilla, a large cluster and software management system. TestZilla provides automated testing of large-scale distributed systems, and synchronization between different test components that reside at different test hosts.
- Designed a flow and congestion control framework that adjusts the sending rate of Internet applications. The framework optimizes the send rate to minimize overflowing network and receiving host buffers.

Technical

Proficient in the major programming languages; web technologies; databases and operating systems, including: C, C++, Java, Python, Matlab, ML, Pascal, ASM, HTML, XML, JavaScript, ASP, JSP, servlets, CGI, IIS, Apache, Oracle, mySQL, O/JDBC, Access, Linux, Windows.

Awards

- Teaching excellence award, Spring 2003
- Full graduate support for the entire PhD studies
- Government scholarship for academic merit during undergraduate studies
- Second place at University-level Mathematics Contest, 1995
- First prizes in regional phases of Romanian Physics and Mathematics high school competitions

Extracurricular

President of Cayuga Windsurfing Club at Cornell University (2003-2004).
Enjoy basketball, soccer, skiing, swimming, and traveling.