

Mortada Mehyar

CONTACT INFORMATION

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EDUCATION

California Institute of Technology **Sep 2002 - Aug 2006**

Ph.D. in Electrical Engineering

- Research Group: Networking Lab <http://netlab.caltech.edu/>
- Advisor: Steven H. Low (Professor in CS and EE)

California Institute of Technology **Sep 2001 - June 2003**

M.S. in Applied Physics

- Advisor: Rudolph A. Marcus (Nobel laureate in 1992)

National Taiwan University, Taipei, Taiwan **Sep 1998 - June 2001**

B.S. in Mathematics

WORK EXPERIENCE

Yahoo! Inc., Burbank, CA **Oct 2006 - April 2009**

Senior Software Developer

I worked on Yahoo's online advertising systems. I was responsible for developing **Content Match**, the contextual advertising engine that powers the Yahoo Publisher Network. I also worked on the next-generation system named **APT** which integrates multiple different advertising channels with enhanced targeting capabilities. The advertisements are served across multiple Yahoo! websites (such as Yahoo! Finance and Yahoo! Sports) and various third-party publishers.

I design and develop high-performance software components (in C/C++) that enable dynamic auction algorithms, serve billions of requests per day, and provide accurate reporting of all events. I also work on unit testing, integration testing, and performance optimization of the components. In addition to development work, my duties also include conducting code reviews, collaborating with multiple teams, and making design and architecture proposals.

Symantec Corporation, Santa Monica, CA **Summer of 2004**

Summer Intern

Built and analyzed the TCP performance of a Secure Socket Layer (SSL) network.

Academia Sinica, Taipei, Taiwan **Summer of 2000**

Undergraduate Research Assistant

Studied laser spectroscopy techniques for understanding DNA-protein interactions.

PROGRAMMING SKILLS

- Working knowledge of C/C++, PHP, Python and Java.
- 7+ years of Web development experience with LAMP (Linux, Apache, MySQL, PHP).
- Working knowledge of HTML/CSS, JavaScript, and jQuery.
- Experience with Hadoop/MapReduce framework, Amazon Web Services (EC2, S3).

HONORS AND AWARDS

- Shannon Prize, 2002 (best student in the Information Theory class by Prof. McEliece)
- Caltech Tuition Award and full Scholarship, 2001
- Early Graduation Award, 2001 (granted a Bachelor degree in 3 years)

LANGUAGE SKILLS

- Mandarin (fluent)
- English (fluent)

PUBLICATIONS

“**Optimization Flow Control with Estimation Error**”, Mortada Mehyar, Demetri Spanos, and Steven Low. *Proceedings of IEEE Infocom*, 2004, Hong Kong.

“**Duality-Based TCP Congestion Control with Error Analysis**” (**Invited**), Mortada Mehyar, Demetri Spanos, and Steven Low. *Performance Evaluation and Planning Methods for the Next Generation Internet*, Kluwer Academic Publishers, 2004.

“**Distributed Averaging on Asynchronous Communication Networks**”, Mortada Mehyar, Demetri Spanos, John Pongsajapan, Steven Low, and Richard Murray. *Proceedings of IEEE Conference on Decision and Control*, 2005, Spain.

“**Distributed Averaging on Communication Networks**”, Mortada Mehyar, Demetri Spanos, John Pongsajapan, Steven Low, and Richard Murray. *IEEE Transactions on Networking*, Aug 2007.

“**Optimal Strategies for Efficient Peer-to-Peer File Sharing**”, Mortada Mehyar, Weihsin Gu, Steven Low, Michelle Effros, Tracey Ho. *International Conference on Acoustics, Speech, and Signal Processing*, 2007, Hawaii.

TEACHING
EXPERIENCE

- Teaching Assistant for Introduction to Control of Physical Systems, Caltech, 2004
- Teaching Assistant for Networking, Caltech, 2003
- Teaching Assistant for Introduction to Quantum Mechanics, Caltech, 2002
- Teaching Assistant for Solid State Electronics for Integrated Circuit, Caltech, 2001

WORK
AUTHORIZATION

- US permanent resident