

Ajeet (AJ) Shankar

1514 Arch Street
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US Citizen

Education

UC Berkeley, Berkeley, CA (2002 – 2009)

Ph.D. in Computer Science
Studied Programming Systems under Rastislav Bodik
Research interests: dynamic analysis and optimization, language design, theory

Harvard University, Cambridge, MA (1997 – 2001)

A.B. in Applied Mathematics/Computer Science, magna cum laude
3.9 concentration GPA, 3.8 cumulative GPA

Cheshire High School, Cheshire, CT (1993 – 1997)

Graduated 3/265; 4.1 GPA (weighted)
Captain of All-State Math Team; Captain of State Academic Team (9th place nationally); 3 Varsity Sports, All-Conference; All-State Musician (3 years, best: 2nd in state); Principal Trumpet, Connecticut Youth Symphony

Awards and Fellowships

2008 Winner, UC Berkeley Venture Lab Prize (58 entrants) for Modista
2008 First Place, UC Berkeley Business Plan Competition (101 entrants) for Modista
2003 Teaching Effectiveness Award (20 TAs selected campus-wide out of 3,000)
2003 National Defense Science and Engineering Graduate Fellowship Recipient
2003 NSF Graduate Research Fellowship Recipient (deferred until 2005)
2002 Outstanding Graduate Student Instructor Award (top 3 TAs in department)
2001 Harvard University Certificate of Distinction in Teaching
2001 John D. Barnwell Award for achievement in academics, athletics, and music
1998-2001 John Harvard Scholarship
1997-1998 Harvard College Scholarship
1997-2001 Robert Byrd Scholar
1997 National Merit Scholar

Publications

Jolt: Lightweight Dynamic Analysis and Removal of Object Churn
Ajeet Shankar, Matthew Arnold, Rastislav Bodik. *OOPSLA* 2008.

Ditto: Automatic Incrementalization of Data Structure Invariant Checks (in Java)
Ajeet Shankar, Rastislav Bodik. *PLDI* 2007.

Runtime Specialization with Optimistic Heap Analysis
Ajeet Shankar, S. Subramanya Sastry, Rastislav Bodik, James Smith. *OOPSLA* 2005.

New Temperatures in Domineering
Ajeet Shankar and Manu Sridharan. *INTEGERS*, Volume 5, 2005.

Katana: A Specialized Framework for Reliable Web Servers
Ajeet Shankar and William McCloskey. Technical Report UCB/ECS-2006-34, 2006.

Approaches to Bin Packing with Clique-Graph Conflicts
William McCloskey and Ajeet Shankar. Technical Report UCB/CSD-05-1378, 2005.

Leveraging Garbage Collection to Dynamically Infer Heap Invariants
Ajeet Shankar and Trishul Chilimbi. US Patent 7,912,877.

Skills

Experienced in C, C++, Java, Perl, Python, OCaml, JavaScript, SQL, algorithm design, systems, web development, and public speaking.

Teaching Experience

UC Berkeley Lecturer, CS169, *Software Engineering*, Spring 2007

Designed course, gave all lectures. Teaching effectiveness: 5.8/7.0; second-highest score among the 13 professors who have taught CS169 since statistics were kept in 1992.

UC Berkeley Graduate Student Instructor, CS172, *Computability and Complexity*, Spring 2003

4.9/5.0 rating, Teaching Effectiveness Award.

Invited to present at the GSI Teaching and Orientation Conference, Fall 2003.

Selected to train all new EECS GSIs, Fall 2005 (4.5/5.0 rating), Spring 2006 (4.8/5.0 rating).

UC Berkeley Graduate Student Instructor, CS170, *Efficient Algorithms and Intractable Problems*, Fall 2002

4.5/5.0 rating, Outstanding Graduate Student Instructor Award.

Harvard University Teaching Fellow, CS153, *Compilers*, Spring 2001

4.9/5.0 rating, Certificate of Distinction in Teaching. Gave several full lectures in lieu of the professor.

Work Experience

Founder and CEO, EasyESI (1/2011 – present)

Led the company to six figures of revenue in its first year. Did all development, including backend Java code, front-end UI design, and a full document production (image, text, and metadata) system.

Senior Software Engineer, TheFind (11/2009 – 8/2011)

Built scalable image analysis algorithms, infrastructure for analyzing tens of millions of images a day.

Founder and CTO, Modista (1/2008 – 12/2009)

Co-founded, designed, and developed Modista.com, a website that uses computer vision algorithms and a novel user interface to enable consumers to browse for apparel intuitively. First Place, 2008 UC Berkeley Business Plan Competition. Winner, 2008 Berkeley Venture Lab Prize. Acquired by TheFind.

Intern, IBM Research, Hawthorne, NY (5/2006 - 8/2006)

Worked with Matthew Arnold on automatic dynamic optimization of large-scale programs via profiling and object analysis.

Intern, Microsoft Research, Redmond, WA (6/2004 - 8/2004)

Worked with Trishul Chilimbi on dynamic heap analysis.

Software Engineer, IBM, Cambridge, MA (6/2001 - 8/2002)

Advanced Internet Technologies Group. Mentor for Extreme Blue. One of two lead developers of SashXB for Linux, an open platform for rapidly developing secure, powerful web-enabled native applications using JavaScript.

Intern, Extreme Blue, IBM, Cambridge, MA (6/2000 - 9/2000)

Worked with the Advanced Internet Technologies Group. Developed the Linux runtime for Sash. Featured in CNET's news.com, Wired, Eweek, Slashdot, and the Boston Globe, among others. Project is open-source and on the gnome.org source tree.

Programmer, Project X, Yale University, New Haven, CT (5/1998 - 9/1998, 6/1999 - 9/1999)

Designed and coded a web-based search engine. Allowed extensive back-end customization of data and output formats.

Other

Won the 2010 USA Ultimate (Frisbee) Mixed National Championship with Polar Bears