

# Shaon Barman

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EDUCATION	PhD in Computer Science University of California, Berkeley	Aug 2009 – Dec 2015
	B.S. in Computer Science University of Texas at Austin • GPA: 3.98 / 4.00 • Credit Hours: 177 • Turing Scholar (CS Honors Program) and Dean Scholar	Aug 2005 – May 2009
THESES	<b>PhD Thesis</b> – End-User Record and Replay for the Web • Advised by Ras Bodik • Researched a record and replay system for webpages, so that end-users can automate interactions on a website. We also built more expressive end-user applications, such as a tool for web-scraping by demonstration.	
	<b>Undergraduate Honors Thesis</b> – Aster: Automatic abstract syntax • Researched the conversion between concrete syntax and abstract syntax	
EXPERIENCE	<b>Teaching Assistant</b> – UC Berkeley • CS 164: Hack Your Language! taught by Ras Bodik • Received ratings of 4.8 / 5.0 and 4.0 / 5.0 from student reviews	Fall 2014, Spring 2012
	<b>Mentor</b> – Techbridge • Mentored a group of high school girls working on projects involving Arduinos	Jan 2014 – May 2014
	<b>Software Engineer Intern</b> – Mozilla • Implemented initial prototype of PDF reader written in JavaScript (pdf.js)	May 2011 – Aug 2011
	<b>Research Intern</b> – IBM Research • Implemented a fault localization tool using symbolic programming	May 2010 – Jul 2010
	<b>Software Engineer Intern</b> – Google • Worked on AdWords Front End Conversion Tracking • Implemented new UI to integrate Adwords and Analytics	May 2008 – Aug 2008
	<b>Software Development Engineer Intern</b> – Microsoft • Worked on System Center Service Manager • Integrated PowerShell into the existing task infrastructure	May 2007 – Aug 2007
	<b>Summer Intern</b> – BP • Learned basic SQL and data mining techniques • Worked within a large database used to schedule work on oil platforms	May 2005 – Aug 2005
PUBLICATIONS	Barman, Shaon, Rastislav Bodik, Satish Chandra, Emina Torlak, Arka Bhattacharya, and David Culler. “Toward Tool Support for Interactive Synthesis”. Onward! 2015.	
	Chasins, Sarah, <u>Shaon Barman</u> , Rastislav Bodik, and Sumit Gulwani. “Browser Record and Replay As a Building Block for End-User Web Automation Tools”. WWW '15 Companion.	
	Chandra, Satish, Emina Torlak, <u>Shaon Barman</u> , and Rastislav Bodik. “Angelic Debugging”. ICSE '11.	
	Bodik, Rastislav, Satish Chandra, Joel Galenson, Doug Kimelman, Nicholas Tung, <u>Shaon Barman</u> , and Casey Rodarmor. “Programming with Angelic Nondeterminism”. POPL '10.	
SELECTED GRADUATE COURSEWORK	<b>Bridging the Digital Divide</b> – Instructor: Yahel Ben-David • Learned about the Further Reach network, a wireless broadband ISP serving a rural, sparsely-populated area	
	<b>Eat. Think. Design</b> – Instructor: Jaspal Sandhu • Applied the design process to find new ways of increasing access to healthy foods within the Navajo Nation	
	<b>Cyberlaw</b> – Instructor: Brian Carver • Wrote a Wikipedia article on the US Supreme Court case <i>United States v. Cotterman</i>	
	<b>Human Computer Interaction</b> – Instructor: Björn Hartmann • Developed a new IVR system for NextDrop, a project to crowdsource water availability information in the developing world	
	<b>Cellphones as a Computing Platform</b> – Instructor: Eric Brewer • Helped create a system to record EKGs using a Nokia N900 cell phone and inexpensive circuits	
PROGRAMMING LANGUAGES	Javascript - Intermediate knowledge Java - Intermediate knowledge	Python - Basic knowledge Scala - Basic knowledge