

Christopher R. Aberger

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EDUCATION	Stanford University , Palo Alto, California <i>Doctor of Philosophy</i> in Computer Science	<i>Expected 2019</i>
	Stanford University , Palo Alto, California <i>Master of Science</i> in Electrical Engineering Concentration in Software Systems	<i>Spring 2015</i>
	University of Wisconsin , Madison, Wisconsin <i>Bachelor of Science</i> in Computer Science <i>Bachelor of Science</i> in Computer Engineering <i>Minor</i> in Mathematics Graduated with Highest Distinction	<i>May 2013</i>
	Zhejiang University , Hangzhou, China Technical communication and Mandarin course	<i>Summer 2009</i>
TECHNICAL REPORTS	EmptyHeaded : Boolean Algebra Based Graph Processing arXiv Manuscript	2015
EXPERIENCE	Stanford University , Palo Alto, California <i>Research Assistant</i> under Christopher Ré and Kunle Olukotun	<i>Fall 2013-Present</i>
	Apple Inc. , Austin, TX <i>Design Performance Intern</i> Machine learning applied to performance analysis for A7 chip design.	<i>Summer 2013</i>
	IBM , Austin, TX <i>Hardware Engineering Co-op</i> Functional verification and lab bring-up procedures for Power8 chip.	<i>Summer 2012</i>
	Epic Systems , Madison, WI Finance Intern	<i>Summer 2010, 2011</i>
LANGUAGES	Scala, C, C++, Java, JavaScript, Python, Perl, SQL, OpenGL, WebGL, XML, Haskell	
SELECTED DESIGN PROJECTS	WebGL Demo Open ended graphics course project implemented in JavaScript using the WebGL API. Learned how to utilize a device's GPU in a browser without plugins. Built a low-level, self-contained, extensible graphics library.	<i>Spring 2013</i>
	Consolidated Rename Issue and Bypass Processor Team leader with 5 total members. Advanced microarchitecture proposed under the direction of professor Mikko Lipasti. Proof of concept project designed using Verilog 2001 and verified using ModelSim. Synthesized and flashed to a Xilinx Virtex II board (with minimal I/O system RS232 and VGA Display) using Xilinx ISE.	<i>Spring 2012</i>

SELECTED COURSES

University of Wisconsin-Madison

Advanced Computer Architecture I (Superscalar design) (ECE 752)
Advanced Computer Architecture II (Multi-core design) (ECE 757)
Digital Engineering Laboratory (ECE 554)
Digital System Design and Synthesis (ECE 555)
Digital Signal Processing (ECE 431)
Operating Systems (CS 537)
Computer Graphics (CS 559)
Algorithms (CS 577)

Stanford University

Databases (CS 145)
Automata and Complexity Theory (CS 154)
Programming Languages (CS 242)
Topics in Database Management Systems (CS 345)
Program Analysis and Optimizations (CS 243)
Advanced Topics in Operating Systems (CS 240)
Machine Learning (CS 229)

AWARDS

2010-2011, International Engineering Consortium Everitt Award Winner
2009, 2010, Claude and Dora Richardson Engineering Scholarship
2011-2012, Tau Beta Pi National Scholar
2012, Fred W. and Josephine H. Colbeck Scholarship Award
2010, Polygon Excellence in Engineering Scholarship
2008-2012, Wisconsin Academic Excellence Scholarship
2008, La Crosse Community Foundation Engineering Scholarship
2008, La Crosse Central High School graduation rank: 1/317