

Christopher R. Aberger

cabarger@stanford.edu
(608) 738-8876

| | | |
|---------------------|--|--------------------------|
| EDUCATION | Stanford University , Stanford, California <i>Doctor of Philosophy</i> in Computer Science | <i>Expected 2018</i> |
| | Stanford University , Stanford, California <i>Master of Science</i> in Computer Science | <i>Summer 2016</i> |
| | Stanford University , Stanford, California <i>Master of Science</i> in Electrical Engineering | <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> |
| PUBLICATIONS | Mind the Gap: Briding Multi-Domain Workloads with EmptyHeaded <i>Christopher R. Aberger, Andrew Lamb, Kunle Olukotun and Christopher Ré</i> VLDB Demo | 2017 |
| | EmptyHeaded: A Relational Engine for Graph Processing <i>Christopher R. Aberger, Susan Tu, Kunle Olukotun and Christopher Ré</i> SIGMOD, Best of | 2016 |
| | Old Techniques for New Join Algorithms: A Case Study in RDF Processing <i>Christopher R. Aberger, Susan Tu, Kunle Olukotun and Christopher Ré</i> ICDE Workshop | 2016 |
| | Have Abstraction and Eat Performance, Too: Optimized Heterogeneous Computing with Parallel Patterns <i>Kevin J. Brown, HyoukJoong Lee, Tiark Rompf, Arvind K. Sujeeth, Christopher De Sa, Christopher Aberger, and Kunle Olukotun</i> CGO | 2016 |
| EXPERIENCE | Stanford University , Palo Alto, California <i>Research Assistant</i> under Christopher Ré and Kunle Olukotun | <i>Fall 2013-Present</i> |
| | Google , Mountain View, CA <i>Software Engineering Intern</i> Materialized view query optimization in the F1 (massively distributed) database. | <i>Spring 2017</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

Summer 2012

Hardware Engineering Co-op

Functional verification and lab bring-up procedures for Power8 chip.

Epic Systems, Madison, WI

Summer 2010, 2011

Finance Intern

LANGUAGES C++, Python, Scala, Java, C

SELECTED **University of Wisconsin-Madison**

COURSES

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)

Logic (CS 157)

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

2008, La Crosse Community Foundation Engineering Scholarship

2008-2012, Wisconsin Academic Excellence Scholarship

2009, 2010, Claude and Dora Richardson Engineering Scholarship

2010, Polygon Excellence in Engineering Scholarship

2010-2011, International Engineering Consortium Everitt Award Winner

2011-2012, Tau Beta Pi National Scholar

2012, Fred W. and Josephine H. Colbeck Scholarship Award