|              |  | caberger@stanford.edu<br>(608) 738-8876 |
|--------------|--|---|
| EDUCATION    | <b>Stanford University</b> , Stanford, California<br>Doctor of Philosophy in Computer Science  | Expected 2018                           |
|              | <b>Stanford University</b> , Stanford, California  Master of Science in Computer Science   | Summer 2016                             |
|              | <b>Stanford University</b> , Stanford, California <i>Master of Science</i> in Electrical Engineering   | Spring 2015                             |
|              | University of Wisconsin, Madison, Wisconsin Bachelor of Science in Computer Science Bachelor of Science in Computer Engineering Minor in Mathematics Graduated with Highest Distinction                                    | May 2013                                |
|              | Zhejiang University, Hangzhou, China<br>Technical communication and Mandarin course  | Summer 2009                             |
| PUBLICATIONS | EmptyHeaded: A Relational Engine for Graph and RDF Processing Christopher R. Aberger, Andrew Lamb, Susan Tu, Andres Nör Kunle Olukotun, and Christopher Ré TODS  | 2017<br>tzli,                           |
|              | Mind the Gap: Briding Multi-Domain Workloads with EmptyHeaded Christopher R. Aberger, Andrew Lamb, Kunle Olukotun, and Christopher Ré VLDB Demo  |   |
|              | EmptyHeaded: A Relational Engine for Graph Procest Christopher R. Aberger, Susan Tu, Kunle Olukotun, and Christopher R. Best of  | 9                                       |
|              | Old Techniques for New Join Algorithms: A Case Stu<br>RDF Processing<br>Christopher R. Aberger, Susan Tu, Kunle Olukotun, and Christopher Workshop   |   |
|              | Have Abstraction and Eat Performance, Too: Optimize Heterogeneous Computing with Parallel Patterns Kevin J. Brown, Hyouk Joong Lee, Tiark Rompf, Arvind K. Schristopher De Sa, Christopher Aberger, and Kunle Olukotun CGO | ujeeth,                                 |

#### **EXPERIENCE**

# Stanford University, Palo Alto, California

Fall 2013-Present

Research Assistant under Christopher Ré and Kunle Olukotun

## Google, Mountain View, CA

Spring 2017

Software Engineering Intern

Materialized view query optimization in the F1 (massively distributed) database.

### Apple Inc., Austin, TX

Summer 2013

Design Performance Intern

Machine learning applied to performance analysis for A7 chip design.

#### **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 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)

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