

## Beomyeol Jeon

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CONTACT INFORMATION	3111 Thomas M. Siebel Center 201 North Goodwin Avenue Urbana, IL 61801	<a href="mailto:bj2@illinois.edu">bj2@illinois.edu</a>  <a href="#">in beomyeol</a>
RESEARCH INTERESTS	Distributed Systems, Cloud Computing, Machine Learning, Non-volatile Memory	
EDUCATION	<b>University of Illinois Urbana-Champaign</b> , Urbana, IL, USA Aug 2016 – present <i>Ph.D. Student in Computer Science</i> <b>Seoul National University</b> , Seoul, Korea Mar 2008 – Feb 2016 <i>B.S. in Computer Science and Engineering (summa cum lauda)</i> <b>The University of Texas at Austin</b> , Austin, TX, USA Jan 2015 – May 2015 <i>Undergraduate Exchange Student in Computer Science</i>	
RESEARCH EXPERIENCE	<b>Distributed Protocols Research Group, UIUC</b> Aug 2016 – present <i>Graduate Research Assistant</i> <ul style="list-style-type: none"><li>• Advisor: Prof. Indranil Gupta</li><li>• Working on a new fault tolerance technique in distributed machine learning systems.</li><li>• Working on the improvement of distributed systems by utilizing non-volatile memory (NVRAM)</li></ul> <b>Cloud and Mobile Systems Lab, Seoul Nat'l University</b> Jul 2015 – June 2016 <i>Undergraduate Research Intern</i> <ul style="list-style-type: none"><li>• Advisor: Prof. Byung-Gon Chun</li><li>• Designed and implemented a deep neural network module for <b>Dolphin</b>, an open-source distributed machine learning platform built on top of <b>Apache REEF</b></li><li>• Worked on the performance modeling and an optimization tool to determine an optimized configuration for a distributed machine learning system</li></ul> <b>Database Systems Lab, Seoul Nat'l University</b> Sep 2014 – Dec 2014 <i>Undergraduate Research Intern</i> <ul style="list-style-type: none"><li>• Advisor: Prof. Bongki Moon</li><li>• Worked on the performance improvement of <b>H-Store</b>, a distributed in-memory database, with NVMe SSD</li><li>• Worked on the performance improvement of <b>MongoDB</b> for trajectory data</li></ul>	
WORK EXPERIENCE	<b>Somansa Inc.</b> , Seoul, Korea Jan 2011 – Dec 2013 <i>Researcher</i> <ul style="list-style-type: none"><li>• Supervisors: Mr. Taewan Kim and Mr. Hwancheol Lim</li><li>• Developed a network data loss prevention (DLP) solution <b>Mail-i</b> and a database audit and protection (DAP) solution <b>DB-i</b> by analyzing network packets</li></ul> <b>Google Inc.</b> , Mountain View, CA, USA May 2017 – August 2017 <i>Software Engineering Intern</i> <ul style="list-style-type: none"><li>• TODO</li></ul>	
OTHER EXPERIENCE	<b>Google Korea</b> , Seoul, Korea Sep 2011 – Aug 2012 <i>Student Ambassador</i> <ul style="list-style-type: none"><li>• Participated in hosting Google Developers University Hackathon Korea 2012</li></ul>	

## PUBLICATIONS

- [3] (Under submission) Yunseong Lee, Woo-Yeon Lee, Joo Seong Jeong, Gyeong-In Yu, Joo Yeon Kim, **Beomyeol Jeon**, Gunhee Kim, Markus Weimer, Brian Cho, Byung-Gon Chun. Dolphin: Automated System Configuration of Distributed Machine Learning, ATC '17, July 2017.
- [2] (Accepted with minor revisions) Byung-Gon Chun, Yingda Chen, Brian Cho, Andrew Chung, Tyson Condie, Carlo Curino, Chris Douglas Matteo Interlandi, **Beomyeol Jeon**, Joo Seong Jeong, Gye-Won Lee, Yunseong Lee. Apache REEF: Retainable Evaluator Execution Framework, ACM Transactions on Computer Systems (TOCS), 2017.
- [1] Byung-Gon Chun, Brian Cho, **Beomyeol Jeon**, Joo Seong Jeong, Gunhee Kim, Joo Yeon Kim, Woo-Yeon Lee, Yun Seong Lee, Markus Weimer, Gyeong-In Yu. Dolphin: Runtime Optimization for Distributed Machine Learning. ICML ML Sys '16 workshop, June 2016.

## AWARDS & HONORS

The National Scholarship for Science and Engineering      2008 – 2010, 2014, 2015

- Full tuition funded by *Korea Student Aid Foundation*

Outgoing Exchange Student Program Scholarship      Spring 2015

- \$2,000 funded by the *Office of International Affairs* at Seoul National University

## COMPUTER SKILLS

Languages and techniques

- C, C++, Java, Python, CUDA, OpenCL
- Apache Maven, CMake, Unix Makefile

Tools

- Apache Hadoop/YARN, Apache REEF, Apache Spark, TensorFlow