

Beomyeol Jeon

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

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, USENIX 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