Beomyeol Jeon

CONTACT INFORMATION	3111 Thomas M. Siebel Center 201 North Goodwin Avenue Urbana, IL 61801	+1-217-417-9816 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
Ph.D. Student in Computer Science

Seoul National University, Seoul, Korea   Mar 2008 – Feb 2016
B.S. in Computer Science and Engineering
- GPA: Overall 4.0/4.3, Major 4.19/4.3 (*summa cum laude*, 3rd/56)

The University of Texas at Austin, Austin, TX, USA   Jan 2015 – May 2015
Undergraduate Exchange Student in Computer Science
- GPA: 3.91/4.0

RESEARCH EXPERIENCE

Distributed Protocols Research Group, UIUC   Aug 2016 – present
Graduate Research Assistant
- Advisor: Prof. Indranil Gupta
- Working on the improvement of distributed systems by utilizing non-volatile memory (NVRAM)
- Working on intelligent scheduling and partitioning for distributed machine learning systems that use data flow graphs

Cloud and Mobile Systems Lab, Seoul Nat'l University   Jul 2015 – June 2016
Undergraduate Research Intern
- 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
Undergraduate Research Intern
- 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
Researcher
- 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

OTHER EXPERIENCE

Google Korea, Seoul, Korea   Sep 2011 – Aug 2012
Student Ambassador
- Participated in hosting Google Developers University Hackathon Korea 2012

PUBLICATIONS	[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

REFERENCES

Indranil Gupta
Associate Professor
Dept. of Computer Science
University of Illinois at Urbana-Champaign
indy@illinois.edu

Byung-Gon Chun
Assistant Professor
Dept. of Computer Sci. and Eng.
Seoul National University
bgchun@snu.ac.kr

Bongki Moon
Professor
Dept. of Computer Sci. and Eng.
Seoul National University
bkmoon@snu.ac.kr

Hwancheol Lim
Senior Researcher, R&D Center
Somansa Inc.
crowmania@somansa.com