

# Taehoon Kim

<http://github.com/carpedm20>  
carpedm20@gmail.com • +82 (10) 9964-0697

EDUCATION	<b>Ulsan National Institute of Science and Technology</b> , Ulsan, South Korea B.S., in Computer Science & Engineering, Electrical Engineering	Mar 2011 – Aug 2015
EXPERIENCE	<b>Lawrence Berkeley National Laboratory</b> , California, USA Undergraduate Research Student <ul style="list-style-type: none"><li>Identify energy use patterns in smart meter data, and relate these patterns to actions of households</li><li>Make baseline models for each household to cluster the households into different groups</li></ul> <b>Moloco</b> , California, USA <i>Student Web Developer</i> <ul style="list-style-type: none"><li>Implement a maximum-likelihood estimation model of the number of users who will download an application</li><li>Build a web visualization of models from a large-scale database with query optimization and a cache system</li></ul> <b>Probabilistic Artificial Intelligence Lab</b> , UNIST Undergraduate Research Student <ul style="list-style-type: none"><li>Improved Bayesian Online Change Point Detection by Reading Texts</li><li>Food image recognition by combining deep convolutional features and shallow encoded features</li></ul> <b>Naver Labs</b> , Seoul, South Korea <i>Software Development Intern</i> <ul style="list-style-type: none"><li>Build a cloud comment hosting service using Django and Angular.js</li></ul>	Jul 2015 – Aug 2015 Oct 2014 – Jan 2015 Sep 2014 – Sep 2015 Jul 2014 – Aug 2014
AWARDS	Best Paper Award, <b>DataCom 2015</b> Best Paper Award for Extracting Baseline Electricity Usage Using Gradient Tree Boosting  Finalist, <b>Student Cluster Challenge</b> One of 11 international teams (including MIT, Tsinghua Univ) selected through the preliminary contest  3rd place, <b>Korea Whitehat Contest 2013</b> Awarded by the Minister of National Defense. Received an award of \$8,000  Finalist, <b>Asia student Supercomputing Challenge 14</b> One of 16 teams among 82 international teams selected through the preliminary contest  Finalist, <b>Asia student Supercomputing Challenge 13</b> One of 10 teams among 43 international teams selected through the preliminary contest  1st place, <b>Holyshield Hacking Contest 2013</b> Awarded by the President of Catholic University of Korea. Received an award of \$1,000	Dec 2015 Jun 2014 Sep 2013 Apr 2014 Jan 2013 Nov 2013
PUBLICATIONS	2) <u>T. Kim</u> and J. Choi, <b>Reading documents for bayesian Online Change Point Detection</b> , in <i>Empirical Methods on Natural Language Processing (EMNLP)</i> , Lisbon, Portugal, Sep 2015.  1) <u>T. Kim</u> , D. Lee, J. Choi, A. Spurlock, A. Sim, A. Todd, K. Wu, <b>Extracting Baseline Electricity Usage Using Gradient Tree Boosting</b> , in <i>2015 International Conference on Big Data Intelligence and Computing (DataCom 2015)</i> , <b>Best Paper Award</b> , Chengdu, China, Dec 2015.	
PROJECTS	<b>MemN2N-tensorflow, NTM-tensorflow, and DCGAN-tensorflow</b> Implemented End-To-End Memory Networks (Sukhbaatar et, al. 2015), Neural Turing Machine (Graves et, al. 2014), and Deep Convolutional Generative Adversarial Networks (Radford et, al. 2015) in TensorFlow.  <b>Poet Neural</b> , <i>Artificial intelligence that generates Korean poetry</i> Build a generative model for Korean poetry using neural network for Character-level Language and an online demo  <b>Reverse Engineering</b> , <i>LINE, KakaoTalk, Between, Ndrive, and Korail</i> Reverse engineered LINE, KakaoTalk, Between, Ndrive, and Korail mobile applications and wrote python libraries  <b>Remote Code Execution</b> , <i>on UNIST attendance checking devices</i> Embedded devices that check attendance cards was vulnerable to MS 08-067. The password of a main DB server for attendance data is extracted by reverse engineering of the attendance checking program	
SCHOLARSHIPS	Global Scholarship for Undergraduate Research Opportunities Program, UNIST Received \$3,000 as a financial support for research internship at Lawrence Berkeley National Laboratory	2015
LEADERSHIP	HeXA, Computer Security Club, UNIST President	Aug 2012 – Mar 2013