

Taehoon Kim

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EDUCATION	Ulsan National Institute of Science and Technology , Ulsan, South Korea B.S., in Computer Science & Engineering, Electrical Engineering	Mar 2011 – Aug 2015
EXPERIENCE	Lawrence Berkeley National Laboratory , California, USA Undergraduate Research Student <ul style="list-style-type: none">Identify energy usage patterns in smart meter data, and relate the patterns to actions of householdsPropose baseline usage models for each household to cluster the households into different groups	Jul 2015 – Aug 2015
	Probabilistic Artificial Intelligence Lab , UNIST Undergraduate Research Student <ul style="list-style-type: none">Improved Bayesian Online Change Point Detection by Reading TextsFood image recognition by combining deep convolutional features and shallow encoded features	Sep 2014 – Sep 2015
	Moloco , California, USA <i>Student Web Developer</i> <ul style="list-style-type: none">Implement a maximum-likelihood estimation model of the number of users who will download an applicationBuild a web visualization of models from a large-scale database with query optimization and a cache system	Oct 2014 – Jan 2015
	Naver Labs , Seoul, South Korea <i>Software Development Intern</i> <ul style="list-style-type: none">Build a cloud comment hosting service using Django and Angular.js	Jul 2014 – Aug 2014
	Mobile Smart Networking Laboratory , UNIST Undergraduate Research Student <ul style="list-style-type: none">Optimizing Mobile Video Streaming: From Context-aware Scheduling to Cloud-assisted Caching	Jan 2013 – Aug 2014
PUBLICATIONS	2) <u>T. Kim</u> and J. Choi, Reading documents for bayesian Online Change Point Detection , 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, Extracting Baseline Electricity Usage Using Gradient Tree Boosting , in <i>2015 International Conference on Big Data Intelligence and Computing (DataCom)</i> , Best Paper Award , Chengdu, China, Dec 2015.	
AWARDS	Best Paper Award, DataCom 2015 Best Paper Award for Extracting Baseline Electricity Usage Using Gradient Tree Boosting	Dec 2015
	Finalist, Student Cluster Challenge One of 11 international teams (including MIT, Tsinghua Univ) selected through the preliminary contest	Jun 2014
	3rd place, Korea Whitehat Contest 2013 Awarded by the Minister of National Defense. Received an award of \$8,000	Sep 2013
	1st place, Holyshield Hacking Contest 2013 Awarded by the President of Catholic University of Korea. Received an award of \$1,000.	Nov 2013
	Finalist, Asia student Supercomputing Challenge 14 One of 16 teams among 82 international teams selected through the preliminary contest	Apr 2014
	Finalist, Asia student Supercomputing Challenge 13 One of 10 teams among 43 international teams selected through the preliminary contest	Jan 2013
	Outstanding Graduate Award, Ministry of Science, ICT and Future Planning Only one selected graduate, awarded by the Minister of Science, ICT and Future Planning	Feb 2016
	Student Outstanding Contribution Award 2014, UNIST	Dec 2014
	Student Outstanding Contribution Award 2013, UNIST	Jan 2014
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
	Academic Performance Scholarship, UNIST	2011 – 2015
	National Science and Engineering Scholarship, Korean Student Aid Foundation	2013

PROJECTS

DCGAN, MemN2N, NTM, lstm-char-cnn, visual-analogy, attentive-reader, and variational-text
Implemented 1) Deep Convolutional Generative Adversarial Networks, 2) End-To-End Memory Networks, 3) Neural Turing Machine, 4) Character-Aware Neural Language Models, 5) Deep Visual Analogy-Making, 6) Teaching Machines to Read and Comprehend, and 7) Neural Variational Inference for Text Processing in TensorFlow

Neural Face, *AI that generates face images*

Build a generative model for face images using Deep Convolutional Generative Adversarial Networks and a web demo

Poet Neural, *AI that generates Korean poetry*

Build a generative model for Korean poetry using neural network for Character-level Language and a web demo

ReviewDuk, *Korean sentiment analyzer*

Build a Korean sentiment analyzer using logistic regression and Korean Movie Review dataset

Reverse Engineering, *LINE, KakaoTalk, Between, Ndrive, and Korail*

Reverse engineered 1) LINE, 2) KakaoTalk, 3) Between, 4) Ndrive, and 5) Korail and wrote python libraries

VoxOffice & VoxMusic, *Data Visualization*

A Streamgraph Data Visualization of Film Box Office and Music Chart Ranking

Remote Code Execution, *on UNIST attendance checking devices*

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

LEADERSHIP

HeXA, Computer Security Club, UNIST

President

Aug 2012 – Mar 2013