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 Man	2011 – Aug 2015	
EXPERIENCE	Lawrence Berkeley National Laboratory, California, USA Undergraduate Research Student Identify energy use patterns in smart meter data, and relate these patterns to actions of households Make baseline models for each household to cluster the households into different groups		
	Probabilistic Artificial Intelligence Lab, UNIST Undergraduate Research Student Sep • Improved Bayesian Online Change Point Detection by Reading Texts • Food image recognition by combining deep convolutional features and shallow encoded features.	Research Student Sep 2014 – Sep 2015 sian Online Change Point Detection by Reading Texts rognition by combining deep convolutional features and shallow encoded features inia, USA reloper Oct 2014 – Jan 2015 aximum-likelihood estimation model of the number of users who will download an application	
	 Moloco, California, USA Student Web Developer Implement a maximum-likelihood estimation model of the number of users who will downloa Build a web visualization of models from a large-scale database with query optimization and 		
	Naver Labs, Seoul, South Korea Software Development Intern • Build a cloud comment hosting service using Django and Angular.js	2014 – Aug 2014	
	Mobile Smart Networking Laboratory, UNIST Undergraduate Research Student Optimizing Mobile Video Streaming: From Context-aware Scheduling to Cloud-assisted Caci	Jan 2013 – Aug 2014 to Cloud-assisted Caching	
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</i> (EMNLP), Lisbon, Portugal, Sep 2015.		
	1) <u>T. Kim</u> , D. Lee, J. Choi, A. Spurlock, A. Sim, A. Todd, K. Wu, Extracting Ba Usage Using Gradient Tree Boosting , in <i>2015 International Conference on Big and Computing</i> (DataCom 2015), Best Paper Award , Chengdu, China, Dec 20	Data Intelligence	
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 of	Jun 2014 ontest	
	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 Lal	2015 poratory	
	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, 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