Taehoon Kim

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RESEARCH INTERESTS
Machine Learning, Deep Learning, Natural Language Processing

EDUCATION

Ulsan National Institute of Science and Technology, Ulsan, South Korea
B.S., in Computer Science & Engineering, Electrical Engineering — Mar 2011 – Aug 2015

ACADEMIC HONORS & AWARDS

Student Cluster Challenge, Finalist — Jun 2014
International Supercomputing Conference 2014
One of 11 undergraduate teams selected through the preliminary contest

Korea Whitehat Contest 2013, 3rd place — Sep 2013
Ministry of National Defense and National Intelligence Service
Awarded by the Minister of National Defense. Received an award of $8,000

Asia student Supercomputing Challenge 14, Finalist — Apr 2014
One of 16 teams among 82 international teams selected through the preliminary contest

PUBLICATIONS

1) T. Kim and J. Choi, **Reading documents for bayesian Online Change Point Detection**, in *Empirical Methods on Natural Language Processing* (EMNLP), Lisbon, Portugal, Sep 2015.

RESEARCH EXPERIENCE

Lawrence Berkeley National Laboratory, California, USA
Undergraduate Research Student — Jul 2015 – Aug 2015
- 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 2014 – Sep 2015
- Improved Bayesian Online Change Point Detection by Reading Texts
- Food image recognition by combining deep convolutional features and shallow encoded features

EMPLOYMENT

Moloco, *Student Web Developer*, California, USA — Oct 2014 – Jan 2015
- Implement a maximum-likelihood estimation model of the number of users who will download an application
- Build a web visualization of models from a large-scale database with query optimization and a cache system

Naver Labs, *Software Development Intern*, Seoul, South Korea — Jul 2014 – Aug 2014
- Build a cloud comment hosting service using Django and Angular.js

OTHER HONORS & AWARDS

Asia student Supercomputing Challenge 13, Finalist — Jan 2013
One of 10 teams among 43 teams selected through the preliminary contest

Holyshield Hacking Contest 2013, 1st place, Catholic University of Korea — Nov 2013
Awarded by the President of Catholic University of Korea. Received an award of $1,000

Student Outstanding Contribution Awards, UNIST — Dec 2013, Dec 2014

PROJECTS

Poet Neural, *Recurrent neural network that generates Korean poetry*
Build a generative model for Korean poetry using Multi-layer LSTM for Character-level Language and an online demo

ReviewDuk, *Korean Sentiment Analyzer*
Build a Korean Sentiment Analyzer in Morphologically Rich Languages using a regression model and an online demo

SCHOLARSHIPS

Global Scholarship for Undergraduate Research Opportunities Program, UNIST — 2015
Received $3,000 as a financial support for research internship at Lawrence Berkeley National Laboratory

Academic Performance Scholarship, UNIST — 2011 – 2015

National Science and Engineering Scholarship, Korean Student Aid Foundation — 2013

CAMPUS ACTIVITIES

HeXA, Computer Security Club, UNIST
President — Aug 2012 – Mar 2013
- Led more than 10 different hacking competitions and international supercomputing competitions
- Find a vulnerability of Korean online shopping mall and electronic attendance systems in UNIST
- Reverse engineered LINE, KakaoTalk, Between, Ndrive, and Korail and wrote python libraries

SKILLS
Python, Java, JavaScript, MATLAB, Go, Lua, Ruby, C / C++, C#, HTML, CSS