Taehoon Kim

50, UNIST-gil, Eonyang-eup, Ulju-gun, Ulsan, South Korea
carpedm20@gmail.com • +82 (10) 9964-0697 • http://carpedm20.github.io/ • http://github.com/carpedm20

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 — 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

Moloco, California, USA
Student Web Developer — 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

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

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

AWARDS

Finalist, **Student Cluster Challenge** — Jun 2014
One of 11 international teams (including MIT, Tsinghua Univ) selected through the preliminary contest

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

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

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

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

PUBLICATIONS

2) 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.

1) T. Kim, D. Lee, J. Choi, A. Spurlock, A. Sim, A. Todd, K. Wu, **Extracting Baseline Electricity Usage Using Gradient Tree Boosting**, in *2015 International Conference on Big Data Intelligence and Computing* (DataCom 2015), **Best Paper Award**, Chengdu, China. Dec 2015.

PROJECTS

MemN2N-tensorflow, *End-To-End Memory Networks Implementation in TensorFlow*
Implemented End-To-End Memory Networks (Sukhbaatar et, al. 2015) which is a recurrent memory network model.

NTM-tensorflow, *Neural Turing Machine Implementation in TensorFlow*
Implemented Neural Turing Machine (Graves et, al. 2014) which is a recurrent memory network model.

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

Reverse Engineering, *LINE, KakaoTalk, Between, Ndrive, and Korail*
Reverse engineered LINE, KakaoTalk, Between, Ndrive, and Korail mobile applications and wrote python libraries

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

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

LEADERSHIP

HeXA, Computer Security Club, UNIST
President — Aug 2012 – Mar 2013

SKILLS

Python, Java, C / C++, Go, Lua, JavaScript, HTML, CSS