Sangyoon Lee

CONTACT

Ph.D. student

School of Computing, KAIST

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Kim Byung Ho IT Building (N1) #722 KAIST, 291 Daehak-ro, Yuseong-gu Daejeon 34141, Republic of Korea

RESEARCH **INTERESTS** **Human-Computer Interaction**

EDUCATION Korea Advanced Institute of Science and Technology (KAIST)

Daejeon, Korea MAR. 2018 - Present Ph.D. student in Computer Science

Advisor: Geehyuk Lee, Ph.D.

Korea Advanced Institute of Science and Technology (KAIST) Daejeon, Korea

M.S. in Computer Science 2018

Thesis: "Diagnosing and Coping with Mode Errors in using a Dual-language Keyboard"

Advisor: Geehyuk Lee, Ph.D.

Korea Advanced Institute of Science and Technology (KAIST)

Daejeon, Korea

B.S. in Computer Science 2016

PUBLICATIONS

International Conference Papers

1. Diagnosing and Coping with Mode Errors in Korean-English Dual-language Keyboard Sangyoon Lee, Jaeyeon Lee, Geehyuk Lee CHI 2019

2. Auto-switching List Search Interface for Touchscreen Smartwatches

Jingun Jung, Sangyoon Lee, Sunggeun Ahn, and Geehyuk Lee

MobileHCI 2018

Domestic Conference Papers

1. First Principles Study of spin polarization in Fe-doped monolayer C2N-h2D

Sangyoon Lee and Geumbi Jung

EDISON Challenge 2016

2. An experimental comparison of user postures between tabletbased reading activities and bookbased reading activities

Sangyoon Lee

KCC 2015

Extended Abstracts: Demonstrations

1. MirrorPad: A Touchpad for Direct Pen Interaction on a Laptop

Sangyoon Lee and Geehyuk Lee

ISS 2019

Patents

1. Smart-toggle for auto recovering from Korean-English mode errors

KR Patent Application. 10-2019-0060681, 2019-05-23.

SANGYOON LEE 1 Last update: December 1, 2019 WORK EXPERIENCE Gold Spoon

MAY. 2015 – FEB. 2016

Software Engineer, Co-Founder

- Backend engineer, API server construction

Skills: Django, Go, Meteor, MongoDB, AWS, React.js, Youtube API

Langpoo JAN. 2015 – MAR. 2015

Software Engineer

- Backend engineer, API server construction *Skills*: Django, AWS, RabbitMQ, Android GCM

Graduate School of Science and Technology Policy, KAIST

Jun. 2014 – Jan. 2015

Work-study Program - Homepage renewal

Computational Nanotech Lab, KAIST

JAN. 2014 - DEC. 2015

Research Intern & Software Engineer

- Hybrid Interface Materials DB construction
- Application of the Machine Learning Algorithm to Electronic Structure Calculations

Skills: Django, Mysql, Scikit-learn, Machine Learning techniques, Tensorflow

Publications:

1. Application of the Machine Learning Algorithm to Electronic Structure Calculations: A Test Case of B/N-doped Graphene

Kim, et al

KPS, 2016.

- Contribution in developing the web application & machine learning techniques.

Interactive Computing Lab, KAIST

JAN. 2014 – MAR. 2014

Research Intern

- Machine State Estimation Using Electric Current Measurement Sensor

Skills: Android

Social Computing Lab, KAIST

May. 2013 – Jun. 2015

Research Intern & Software Engineer

- User Depression Mitigation Project

Skills: Facebook login API, Flask, Django, Html, Javascript, CSS

Publications:

1. Manifestation of depression and loneliness on social networks: a case study of young adults on Facebook

Park, Sungkyu, et al

CSCW, 2015.

- Contribution in developing the web application.

Intelligence in Science & Technology, KISTI

Jun. 2013 - Aug. 2013

Summer Intern

- Big data(scientist's bio) analysis and processing

Skills: Mysql, Java, Hadoop, MapReduce

ACTIVITIES CS Undergraduate Student Council, KAIST

JAN. 2014 – JAN. 2015

President

CS Undergraduate Student Council, KAIST

JAN. 2013 – JAN. 2014

Vice Representative of '12

AWARDS Naver '19 PhD Fellowship

Fall 2019

PhD Fellowship Award

ISS '19 Demonstration

Fall 2019

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Honorable Mention Demo Award

UIST '17 Student Innovation Contest

People's Choice award

MAY. 2016 - Present OPEN SOURCE Konlpy, Konlpy

CONTRIBUTION Python package for Korean natural language processing Url: https://github.com/konlpy/konlpy

> PinPoint, Naver DEC. 2014 - Present

> Pinpoint is an open source APM (Application Performance Management) tool for large-scale distributed

systems written in Java

Url: https://github.com/naver/pinpoint

OPEN SOURCE Web Speech AI for youtube player

PROJECT

This project is a speech-ai for managing youtube video player.

This is a wrapper server written by Flask to integrate http://api.ai/ and Mozila Web speech recognition api

Url: https://github.com/pinetree408/speech-ai

Wrist Gesture Recognizer On Smartwatch SEP. 2017 – Present

This project recognizes four wrist gesture on smartwatch with machine learning technique(SVM)

Url: https://github.com/pinetree408/tilt_selection_server

BookmarksReminder SEP. 2016 – Present

This chrome extension gives you a reminder alarm for bookmarks

Url: https://chrome.google.com/webstore/detail/bookmarksreminder/jeegdkkmnjonkoefmnhokohkbheoeadi

JUL. 2016 - Present korean-corpus-generator

Python package for Korean corpus generating

Url: https://github.com/pinetree408/korean-corpus-generator

VFT MAY. 2016 - Present

Visualization Tool for Filtering Test Logs based on Eclipse plug-in

Url: https://github.com/pinetree408/VFT

django-facebook-auth MAY. 2015 - Present

Django facebbook auth helper

Url: https://pypi.python.org/pypi/django-facebook-auth-helper

TEACHING **Teaching Assistant**

EXPERIENCE CS550 Software Engineering Spring 2019

> CS584 Human-Computer Interaction Fall 2018 CS420 Compiler Design Fall 2016 Spring 2016

CS220 Programming Principles

Tutor

CS311 Computer Architecture Fall 2016

OCT. 2019 INVITED TALKS Coping with Mode Errors in Dual-language Keyboard

Hancom TechDay, Hancom

ACADEMIC Reviewer

CHI' 19, MobileHCI' 19 **SERVICES**

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Fall 2017

SEP. 2017 - Present