Younghun Lee

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Profile

API / Platforms

Computer Scientist interested in **natural language processing**. Proficient in software development, data analysis and retrieval, social network analysis, human-computer interaction, and machine learning.

Education	
Sep 2015 to Apr 2017	 University of Michigan, Ann Arbor, Michigan Master of Science in Information, GPA: 3.83/4.0 Study Emphases: Information Analysis and Retrieval and Human-computer Interaction Research: Interaction retrieval and analysis, advised by Professor Mark W. Newman Award: Outstanding Graduate Student Instructor of the Year in 2016-2017. Recognized by University of Michigan School of Information
Mar 2008 to Feb 2015	 Seoul National University, Seoul, South Korea Bachelor of Science in Electrical and Computer Engineering, GPA: 3.56/4.0 (Cum Laude) Study Emphases: Computer Science and Applied Electrical Engineering Research: Data mining and visualization, advised by Professor Joonhwan Lee Award: Dean of Faculty of Liberal Education Prize (1st Prize) in Fall 2012. Recognized by The Best Paper Competition in "Writing in Science & Technology" Graduation Thesis: Power-free Ion Control System by Capillary Ion Concentration Polarization
Selected Projects	
Feb 2017 to Apr 2017	 Revealing the Network and Diffusion Patterns of False Information Customized Twitter API for Python in order to retrieve more than a million messages containing specific URL information from Twitter Automated the process of establishing friends and follower network graphs Analyzed graphs with centrality measures and identified characteristics of false information
Nov 2016 to Dec 2016	 Investigating the Effect of Presidential Election Results on Hate Crimes Developed a Python program with NLTK in order to retrieve Twitter messages on hate crimes and analyze the sentiment of each message Investigated the statistical significance of a null hypothesis with t-statistics
Mar 2016 to Apr 2016	 Developing a UFO Search Engine (Summary Paper) Improved an existing UFO search engine by evaluating information retrieval methodologies such as inverted index, tf-idf, PageRank, and query expansion
May 2014 to Jun 2014	 Sawtooth Bubble Chart—Visualizing Human Emotion (Summary Paper) Implemented a visualization model that represents arousal and valence of human emotion Retrieved and categorized Twitter data by time, age, and geolocation
Mar 2014 to May 2014	 Korean Text Analysis—Relevancy Visualization of Morphemes Developed a vector space model that parses a Korean document, calculates the intensity of relevancy between meaningful words by cosine similarities Improved the model by experimenting with different weights on bigrams and trigrams
Dec 2013 to Jan 2014	 Visualizing Articles with Different Viewpoints Built a web application that parses two Korean articles of the same subject into morphemes, classifying their similarities and differences, and visualizing them with word clouds
Skills	
Language	Python, C++, JavaScript, JQuery, SQL (fluent), PHP, R (proficient), Java(beginner)

NLTK, Tweepy, Firebase, Flask, Django, AngularJS (proficient), D3.js, ASP.NET (beginner)

Academic Experience

Sep 2016 to Apr 2017 Graduate Student Instructor at University of Michigan School of Infor Fall 2016: Taught Data Oriented Programming (SI 206) to 88 undergrae Winter 2017: Taught Intermediate Programming (SI 507) to 127 gradua Independent Study—User Interaction Pattern Retrieval and Log Analy Implemented an Android web emulator from a Java application that cap patterns and stores log data in Firebase database Recruited 100 users from Amazon Mechanical Turk and analyzed log fidetermine the type of tasks Research Assistant at IRIS (Institute for Research on Innovation & Scional Experience Improved IRIS portal webpage dashboard by adding 6 main features (P. JQuery) Altered O(n²) key generation algorithm into O(n) by implementing a harman professional Experience UX Developer Intern Gale Cengage Learning, Farmington, Michigan	duate students te students ysis tures user interaction les in order to ence) HP, JavaScript, sh table (SQL)
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Improved IRIS portal webpage dashboard by adding 6 main features (P. JQuery) Altered O(n²) key generation algorithm into O(n) by implementing a ha Professional Experience Jun 2016 to Aug 2017 UX Developer Intern	HP, JavaScript, sh table (SQL)
Jun 2016 to Aug 2017 UX Developer Intern	alyzing data from
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 Created 3 data-driven reports about user behaviors by retrieving and and Google Analytics tools and Google Data Studio Developed a web application for internal salespeople to help them demonstrated by the contract of the contrac	
Gale's resources and recommend suitable products to customers (Pytho Jan 2015 to Jul 2015 Associate Software Engineer Samsung Electronics Co., Ltd., Suwon, Gyeonggi-do, South Korea	n, Javascript, JQuery
 Implemented 3 GUI features to an Android mobile application as a part project Achieved 2nd place in the Creative Idea Competition held by Digital M Communication R&D Center 	
Jan 2013 to Feb 2013 Intern LG CNS, Seoul, Korea Implemented an automatic restoration solution for the development servation server)	ver (Redmine on
Scholarships	
Mar 2013 to Feb 2013 Kwanak Corporation Scholarship by Seoul National University Alumni As	sociation
Mar 2010 to Feb 2011 Superior Academic Performance Scholarship by Seoul National University	7
Mar 2008 to Feb 2009 National Scholarship for Science and Engineering by National Research Fe	oundation of Korea
References	
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W.K. Kellogg Associate Professor of Community Information University of Michigan School of Information 3444 North Quad, 105 S State St, Ann Arbor, MI 48105 Office: (734) 763-8427 Email: toyama@umich.edu	
Colleen Van Lent Lecturer IV University of Michigan School of Information 3341 North Quad, 105 S State St, Ann Arbor, MI 48105 Office: (734) 764-1904 Email: collemc@umich.edu	