

Jongwon Lee

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HIGHLIGHTS

App / 2017-2020 / Ruby on Rails, Android, iOS [Android](#) | [iOS](#):

- SKKOOLBUS: Bus tracking application for shuttle bus system in Sungkyunkwan University, 6000+ downloads. It was created through UX design process and without the help of other faculties or professional programmers. It calculates expected arrival time for buses on server real-time. I plan to apply real-time deep learning to improve accuracy.

Full Scholarship / 2013-2020 / Samsung:

- Samsung Scholarship: I was selected by Samsung as I enter my first university, Sungkyunkwan with a full scholarship to fund my bachelors degree at Sungkyunkwan University.

Dual Degree Program / 2013-2020 / Sungkyunkwan University and Indiana University Bloomington:

- I was selected as a dual degree program student, acquiring two bachelor's degree from two universities. It was definitely challenging to meet graduate requirements for both school in a short period of time, however, it significantly helped me broaden my perspective on academics and culture from different environment.

Project / 2019-2020 / Visualizing Multidimensional Data / [Docs](#):

- It is a project for a data visualization course in Indiana University by [YY](#). It was open for both undergraduate and graduate student, thus it was challenging. However, it inspired me and introduced what a graduate school research looks like. I researched to solve the problem with visualizing multidimensional data with python.

PERSONAL STATEMENT

"As a prospective graduate with economics major and informatics minor and a dual degree student, I am looking to utilize my excellent versatility to pursue a research at informatics area. I am particularly interested in a regression problem and visualizing multi variate data to improve self-created bus tracking app that every student in my university uses."

EDUCATION

AUG 2018-MAY 2020 (expected)

Bachelor/Economics (Major), Informatics (Minor)
Indiana University (Indiana, USA)

Course Project for [data visualization course](#) / AUG 2019-JAN 2020 / [Docs](#)
FA 2019 Dean's List

MAR 2013-MAY 2020 (expected)

Bachelor/Global Economics
Sungkyunkwan University (Seoul, South Korea)

Research Assistant for professor [Nielson Youngju](#) / NOV 2016-MAR 2017:

- Conducted a research on Korean Indie-film audience expectation. (First Place at a SKKU informatics research competition)
- Managed professor Nielson Youngju's web blog.

Full Scholarship by Samsung / MAR 2013-MAY 2020

MAR 2010-FEB 2013

Chinese Major
Anyang Foreign Language High School (Gyeonggi-do, South Korea)

Selected through exams and interviews with a competition rate of 5.82:1.

PROFESSIONAL SKILL

Proficient in:

- **Python**: data analysis, visualization, won multiple awards with project using Python, machine learning
- **Ruby on Rails**: created a bus tracking app for my University, ranking system for a local game community, outsourcing, teaching experience

Intermediate level:

- **HTML & CSS**: creating websites for projects and outsourcing

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WORK EXPERIENCE

JUN 2017-AUG 2017

Data Researcher/Platform Division/[Smilegate](#) (Gyeonggi-do, South Korea)

Internship – Intern that suggests new idea

- I was at first assigned with miscellaneous repetitive works to improve the company's platform project along with other interns. However, I proved that I can produce more than the company anticipates from interns by handing in extra works such as natural language analysis on Twitter and crawling data from YouTube, Google and other relevant sites.
- Even though I was an intern, I had the responsibility to explain how other employees can support my work since it became a part of the team's report. Balancing between leading them but at the same time not breaking apart team structure and hierarchical order was challenging but learned through this opportunity.
- This connected to suggest a data analysis start-up at a AWS hackathon, creating a virtual start-up called [Omnisian](#). I was awarded by AWS and received Amazon Echo as a prize. (AUG 2017)

OCT 2016-MAR 2017

Back end Developer/Ruby on Rails/[LikeLion](#)

Back end Developer – Devotion that did not get attention

- It was one of the meaningful moment of my life that I was able to get paid a real salary to create a website. It was also for a project that meant to have a powerful support by the owner of the largest programming education organization in Korea. I was chosen by him to make a four people team and start from proposal to innovate university course grading community in Korea such as [ratemyprofessor.com](#) for US.
- I learned that how it is difficult to create a running webpage with authentication and search module and most importantly communicating with the owner that was not interested in the project. It was because the owner was busy taking care of his other projects and thought while our project was still going on.
- At the end, our team was finishing up the website with the full feature in an uncertainty like a dense fog. This project was ironically an incomplete project even though the start was promising than any other project. I loved this project than any other but at the same time had the most pain.
- This project made me promise myself, one day I will create a service that more than 5000 people use and the day did not come too late. (Bus tracking app for my university)

AWARDS

22 DEC 2016

Grand Prize/Ruby on Rails, Regression
Creative Informatics Project/Sungkyunkwan University

[Indie-film Genie](#) – Analysis on 'indie-film audience expectation' – Steppingstone of data analysis

- I gathered and led a team to predict indie-film audience in Korea even though I had a bare knowledge on this area. I had to learn not only how to gather and process data but also how regression works in a few weeks. However, I enjoyed this too much that everything went smoothly and was able to achieve grand prize at this competition.
- I cast professor [Nielson Youngju](#) even though she was extremely busy and did not promise any help on this project. I had to find a way a sophomore year undergraduate can impress a professor and showed what our team is working on is actually relevant to this world.
- This [paper](#) concluded that domestic movie maniac's opinion and foreign index was not significant on expecting the number of audiences of indie-film that are imported to Korea, rather reveals and discusses how other variables impacts the model.
- As my expansion of knowledge went further, I delve more deeply on this dataset and area of study in 2020 for a course project of [data visualization course](#).

30 OCT 2016

Best 3/Unity C#/Puzzle, Gravity Physics Engine
[Smilegate Game Jam](#)/Smilegate

[Nabla\(∇\)](#) – The first game made by a game addict

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31 AUG 2016

Grand Prize/Ruby on Rails, Data Analysis
Creative Informatics Project/Sungkyunkwan University

Analysis on the effect of 'Korean Legal Cap on Phone Subsidies'

31 AUG 2016

Grand Prize/EV3
Convergence Project/Sungkyunkwan University

Forest fire early detection and extinguishment tower with EV3 - targeting U.S. and Canada (Patent and Modeling)

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29 SEP 2016

5th place among 200 teams/Ruby on Rails, Web Page
[LikeLion](#) Hackathon 2016/LikeLion

[Tost](#) – English Academy Search Service

PROFESSIONAL EXPERIENCE

MAY 2014-FEB 2016

Sergeant/Korean Army
Yongsan US Army Garrison (Seoul, South Korea)

Military Police / Directorate of Emergency Services (DES) / SEP 2015-FEB 2016:

- Interview and screen visitors accessing the military post
- Escort official visitors

Investigator / Criminal Investigation Command (CID) / MAY 2014-AUG 2015:

- Simultaneous interpretation during field investigation
- Translate official statements and legal documents

LEADERSHIP EXPERIENCE

EXTRACURRICULAR ACTIVITIES

INTERESTS

- Has solving cube blind as a bucket list.
- Travel world to play a card game. (Earned a prize that worth \$5000 by flying to Japan)