

# YoungHun Lee

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## Interests

Human Computer Interaction, Information Visualization, Natural Language Processing, Machine Learning

## Education

**University of Michigan** – Ann Arbor, Michigan

**M.S. in Information**(Specialization: **Human-Computer Interaction**), from Sep 2015. (GPA: 3.81/4.0)

**Seoul National University** – Gwanak-gu, Seoul, Korea

**B.S. in Electrical and Computer Engineering**, from Mar 2008 to Feb 2015. (GPA: 3.56/4.0)

- **Ranked 1<sup>st</sup>** (among 100 teams) in the thesis presentation symposium held by College of Engineering.

## Work Experiences

**Gale Cengage Learning** – Farmington Hills, Michigan (<http://www.gale.com>)

**User Experience Intern**, from Jun 2016 to Aug 2016 (3 months)

- Created 3 data-driven reports about usages by utilizing Google Analytics and Google Data Studio.
- Developed visualization toolkit which visualizes Gale resources based on recommendation system.

**IRIS(Institute for Research on Innovation & Science)** – Ann Arbor, Michigan (<http://iris.isr.umich.edu>)

**Research Assistant**, from Nov 2015 to Apr 2015 (6 months)

- Created procedures to extract meaningful data (Python, T-SQL).
- Altered  $O(n^2)$  key generation algorithm into  $O(n)$  by implementing a hash table.
- Improved portal website dashboard by adding 6 main features (PHP, JavaScript, jQuery).

**Samsung Electronics Co., Ltd.** – Suwon, Gyeonggi-do, Korea (<http://www.samsung.com/sec>)

**Associate Software Engineer & UX Designer**, from Jan 2015 to Jul 2015 (7 months)

- Researched Bluetooth Low Energy technology and proposed new services.
- Participated in the fast prototyping project by implementing 3 GUI features to the application (Java).
- Achieved 2<sup>nd</sup> place in the Creative Idea Competition held by Digital Media and Communication R&D Center.

**LG CNS** – Geumcheon-gu, Seoul, Korea (<http://www.lgcns.co.kr>)

**Intern**, from Jan 2013 to Feb 2013 (2 months)

- Implemented an automatic restoration solution for the development server (Linux server using Redmine).

## Projects

- **Retrieving SmartThings Data:** Built smart home hub with 3 SmartThings sensors and implemented codes to retrieve their data and dump into Firebase database (Groovy). Tutored by Professor Mark W. Newman.
- **Mobile App Developing:** Developed an application which helps friends to meet up easily. Implemented features like FB integration, real-time chatting and scheduling interface with Ionic framework (AngularJS).
- **Introducing Arduino:** Taught Arduino to junior high school students and helped them to build their own gadgets with provided sensors.
- **Analyzing Text by Co-occurrence:** Mined text data, sorted them by words' co-occurrence and applied vector space model to each sentence. Visualized them with heat map using D3.js.
- **Sawtooth Bubble Chart:** Visualized multi-dimensional aspects of human emotions by applying sawtooth on the bubble chart.
- **Calendar Visualization:** Classified types of events in the Google Calendar and visualized them with the revolution model of the solar system (Node.js).
- **Articles with Different Viewpoints:** Pre-processed text data from two different articles and visualized them with word cloud using D3.js.

## Other Experiences

**AIESEC in Seoul National University** – Gwanak-gu, Seoul, Korea

**Local Committee President**, Sep 2009 to Aug 2010

- Managed more than 50 group members, led several projects, held a couple of leadership seminars, and participated international conferences as a representative role.

## Skills

- Language: C++, Python, HTML, JavaScript, jQuery (fluent), PHP, T-SQL (proficient), Java (beginner)
- Platform: ASP.NET, D3.js, (proficient), Node.js, Arduino, AngularJS, Ionic, Flask, Firebase (beginner)