



# Ha Junsoo (河俊秀)

## Personal Details

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## Interests

Computer Vision (Visual QA, Scene Understanding)  
Unsupervised Learning (Representation Learning, Density Estimation)  
Free and Open Source Softwares  
Python and JavaScript  
Functional Languages  
CLI Tools

## Education

### Hanyang University (Seoul)

- *B.S. in Software Engineering, May 2013 - Present*
- *B.S. in Mathematics, Aug 2014 - Present*

### Internet OCW

- *Machine Learning, Andrew Ng (Coursera, Stanford)*
- *Convolutional Neural Network for Visual Recognition, Fei-Fei Li (Stanford)*
- *Deep Natural Language Processing, Phil Blunsom (Oxford)*

## Skills

### Python:

- Keras, TensorFlow, PyTorch
- Django, Flask, SQLAlchemy, Celery
- asyncio, Crossbar, Autobahn

### JavaScript:

- Backbone, React, Redux, Electron, Autobahn
- ES6, Webpack, Immutable

### Database:

- MySQL, PostgreSQL, SQLite, Redis

### Others:

- Bash, Git, GNU Make, Docker
- Travis CI, Coveralls, Fabric, AWS

## Open Source Projects

### dl-papers

*Categorized list of Deep Learning papers which gave me meaningful insights*

- Technologies: TensorFlow, PyTorch
- Features:
  - Categorized by their related models and intuitions behind them.
  - Implemented in either *TensorFlow* or *PyTorch*.

### oracle:

*Oracle drops you a prophecy whether if your boss will come to work today*

- Technologies: scikit-learn
- Features:
  - Decision-tree-based prediction on whether if your boss will come to work today.

#### neural-three-kingdoms:

Text generating *bidirectional LSTM* learned from 삼국지 of 이문열

- Technologies: Keras
- Features:
  - Generates 삼국지 style text from a given sentence

#### news:

Asynchronous web subscription engine

- Technologies: *asyncio*, *aiohttp*, Redis, Celery
- Features:
  - Built on top of *asyncio* and *aiohttp*.
  - Supports pluggable backends including *Django ORM* and *SQLAlchemy*.
  - Supports optional schedule persistence via redis.

**anchor** (work in progress):

Web content curation service built on top of *news*

- Technologies:
  - Backend: Flask, SQLAlchemy, Celery, Redis, Crossbar, Autobahn
  - Frontend: Electron, React, Redux, Immutable, ES6, Webpack, Autobahn
- Features:
  - Schedulable web content subscription
  - Personalized web content curation
  - Realtime notification

#### django-record:

Take snapshots of model instances on their changes

- Technologies: Django ORM
- Features:
  - Provides simple mixin which gives auto recording functionality to models.
  - Provides automatic recording for both direct and indirect changes of model instances.
  - Supports property recording for properties that return python primitives.

## Experience

**LG Electronics Co., Ltd.** Seocho, Seoul, Korea

Software Development Intern, Jul 2014 - Aug 2014

- Technologies: *Python*
- Works:
  - Developed Excel table parser and JIRA API wrapper.
  - Automated issue reporting system with the JIRA API wrapper.
  - Tested LG smart TV ported version of WebOS.

**Nexol System Co., Ltd.** Geumcheon, Seoul, Korea

Software Development Intern, Jan 2015 - Mar 2015

- Technologies: *Android*, *Struts2*
- Works:
  - Developed mobile android CMS application for *Samsonite. Korea*.
  - Maintained Struts2 powered backend's CMS validation system for *Samsonite. Korea*.

**Geopia Co., Ltd.** Geumcheon, Seoul, Korea

Software Developer, Apr 2015 - Feb 2017 (Substitute of Mandatory Military Service)

- Technologies: *Android*, *PHP*
- Works:
  - Developed and maintained Android applications for 5 mobile dating services.
  - Developed and maintained PHP backends for 5 mobile dating services.

**Buzzni Co., Ltd.** Gwanak, Seoul, Korea

Software Engineer, Mar 2017 - Present

- Technologies: *Django, Flask, Falcon, SQLAlchemy, Celery, Nginx, AWS, Elasticsearch, Docker*